

Kenya
Service Provision Assessment Survey
2004

Preliminary Report

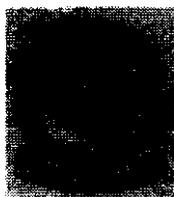
**National Co-ordinating Agency for Population
and Development
Nairobi, Kenya**

**ORC Macro
Calverton, Maryland USA**

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MEASURE DHS

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ABBREVIATIONS

| | |
|---------------|---|
| AIDS | Acquired immunodeficiency syndrome |
| ANC | Antenatal care |
| ARI | Acute respiratory infection |
| ART | Antiretroviral treatment |
| ARV | Antiretroviral |
| BCG | Bacille de Calmette et Guérin |
| CBS | Central Bureau of Statistics |
| DFID | Department for International Development, United Kingdom |
| DHS | Demographic Health Survey |
| DPT | Diphtheria, pertussis, and tetanus |
| FBO | Faith-based organisation |
| FP | Family planning |
| HIV | Human immunodeficiency virus |
| HLD | High-level disinfection |
| IEC | Information, Education, Communication |
| IM | Intramuscular |
| IMCI | Integrated Management of Childhood Illness |
| IV | Intravenous |
| KSPA | Kenya Service Provision Assessment |
| MOH | Ministry of Health |
| MTCT | Mother-to-child transmission |
| NCAPD | National Co-ordinating Agency for Population and Development |
| NGO | Nongovernmental organisation |
| OPV | Oral polio vaccine |
| ORC | Opinion Research Corporation |
| PEP | Postexposure prophylaxis |
| PEPFAR | President's Emergency Plan for AIDS Relief |
| PLHA | People living with HIV/AIDS |
| PMTCT | Prevention of mother-to-child transmission |
| RTI | Reproductive tract infection |
| STI | Sexually transmitted infection |
| UNICEF | United Nations Children's Fund |
| USAID | United States Agency for International Development |
| VCT | Voluntary counselling and testing |
| WHO | World Health Organisation |

I. INTRODUCTION

1.1 Background

The 2004 Kenya Service Provision Assessment (KSPA 2004) was implemented by the National Co-ordinating Agency for Population and Development (NCAPD), a division of the Ministry of Planning and National Development, and the Ministry of Health (MOH), with technical assistance from ORC Macro under the MEASURE DHS Project. USAID, DFID and UNICEF provided financial support for the survey and the Central Bureau of Statistics (CBS) assisted with human and logistical resources.

The survey provides detailed information on health facility infrastructure, resources, and management systems, and on services for child health, family planning, maternal health (antenatal and delivery care), and selected communicable diseases, specifically sexually transmitted diseases and tuberculosis. The survey also provides information on the capacity of health facilities to provide quality HIV/AIDS services.

This preliminary report presents early findings with regard to the principal aspects of facility infrastructure and service delivery on which information was collected. A more detailed report will be published later in 2005.

1.2 Survey Objectives

The 2004 KSPA was designed to meet the following objectives

- Describe the preparedness of government and nongovernment health facilities in Kenya to provide quality child, maternal, reproductive health, and HIV/AIDS services;
- Identify gaps in the support services and systems that may affect the ability to provide quality services;
- Describe the processes used in providing child, maternal, and reproductive health services and the extent to which accepted standards for quality service provision are followed;
- Provide comparisons on findings between provinces in Kenya and, at the national level, between different types of facilities, as well as those operated by the different managing authorities (government, nongovernmental organisations (NGO), faith-based organisations (FBO) and private for-profit organisations);
- Describe the extent to which clients understand what they must do to follow up on the services received so that the best health outcome is achieved; and
- Provide baseline information on the capacity of health facilities to provide basic and advanced level HIV/AIDS care and support services, and the capacity to maintain record keeping systems for monitoring HIV/AIDS preventive, diagnostic, care and support services.

II. SURVEY IMPLEMENTATION

2.1 Sample Design and Implementation

The sample was designed to provide a national- and provincial-level representation of all health facilities offering child health, family planning, maternal health (antenatal and delivery care), STIs, TB, and HIV/AIDS services. These facilities were stratified by province and by district, and then selected. Facilities offering voluntary counselling and testing (VCT), antiretroviral therapy (ART) and prevention of mother-to-child transmission of HIV/AIDS (PMTCT) services were over-sampled.

The sample of facilities included the following: hospitals (including national referral hospitals, provincial general hospitals, district and subdistrict hospitals and other hospitals), health centres, maternity/nursing homes, dispensaries, clinics, and stand-alone VCT centres. Facilities were weighted to compensate for over or under sampling and provide a real representation of facilities within the country.¹ Table 2.1 provides details on the numbers of weighted and unweighted (or actual) facilities.²

| Background characteristics | Percent distribution of facilities (weighted) | Number of facilities | |
|----------------------------|---|----------------------|------------|
| | | Weighted | Unweighted |
| Type of facility | | | |
| Hospital | 6 | 28 | 172 |
| Health centre | 28 | 125 | 51 |
| Maternity | 5 | 20 | 46 |
| Clinic | 2 | 8 | 67 |
| Dispensary | 56 | 249 | 69 |
| Stand-alone VCT | 2 | 10 | 35 |
| Managing authority | | | |
| Government | 56 | 246 | 175 |
| NGO | 5 | 21 | 35 |
| Private (for profit) | 14 | 63 | 143 |
| Faith-based organisation | 25 | 110 | 87 |
| Province | | | |
| Nairobi | 9 | 41 | 61 |
| Central | 11 | 50 | 62 |
| Coast | 11 | 49 | 57 |
| Eastern | 19 | 83 | 60 |
| North Eastern | 2 | 8 | 29 |
| Nyanza | 12 | 54 | 57 |
| Rift Valley | 29 | 126 | 62 |
| Western | 7 | 29 | 52 |
| Total | 100 | 440 | 440 |

¹ For further information on weighting, see Appendix 1.

² The final sample of facilities differed from the original frame, due to closure, upgrade or change of managing authority of a good number of facilities. More details will be provided in the final report.

As evident from Table 2.1, the health care delivery system in Kenya is diverse. Using the adjusted (weighted) proportions reflecting real facility distributions, a little over 5 in 10 sampled KSPA facilities were governmental, mainly managed by the Ministry of Health. A fourth are operated by faith-based organisations and the rest are either private for profit (14 percent) or NGO (5 percent) facilities. The majority of facilities were dispensaries (56 percent) compared to clinics and stand-alone VCT centres (2 percent each). Rift Valley province contributed the majority of facilities (29 percent).

2.2 Questionnaires

The KSPA 2004 used a combination of the regular SPA, the HIV/AIDS SPA and several Kenya-specific instruments to collect data. All the instruments used are listed below; however, this preliminary report does not cover all of these instruments.

- HIV/AIDS SPA questionnaire modules (10)
- The Core SPA facility inventory (7 sections)
- Health worker interview (regular and self-administered)
- Observation protocols for the following consultations: family planning, antenatal care, sick child and sexually transmitted infections (4)
- Client exit interview questionnaires for observed family planning, antenatal care, sick child and sexually transmitted infection clients (4)
- Maternity statistics form (Kenya-specific)
- Normal delivery records review form (Kenya-specific)
- Child health provider knowledge interview form (Kenya-specific)
- Maternal health provider knowledge interview form (Kenya-specific)
- District health management team questionnaire (Kenya-specific)

As an example of the application of instruments in each facility, Table 2.2 presents the number and distribution of observations of client-provider consultations. Once in a facility, interviewers observed consultations as they occurred for each type of service (e.g., STI, sick child). Hence, the sample here is more opportunistic and numbers not always reflect the proportions of facilities visited.

Table 2.2. Distribution of observed consultations

Percent distribution of observed consultations (weighted) and number of observed consultations for curative care for sick children, family planning, antenatal care, and sexually transmitted infections (weighted and unweighted), by type of facility. Kenya SPA 2004

| Type of facility | Percent distribution of observed consultations (weighted) | Number of observed consultations | |
|--|---|----------------------------------|--------------|
| | | Weighted | Unweighted |
| OUTPATIENT CARE FOR SICK CHILDREN | | | |
| Hospital | 7 | 102 | 625 |
| Health centre | 39 | 539 | 216 |
| Maternity | 2 | 26 | 52 |
| Clinic | 1 | 14 | 115 |
| Dispensary | 51 | 696 | 199 |
| Stand-alone VCT | 0 | 1 | 4 |
| Total | 100 | 1,379 | 1,211 |
| FAMILY PLANNING | | | |
| Hospital | 12 | 64 | 413 |
| Health centre | 48 | 259 | 99 |
| Maternity | 2 | 13 | 29 |
| Clinic | 1 | 3 | 28 |
| Dispensary | 37 | 199 | 52 |
| Stand-alone VCT | 0 | 1 | 7 |
| Total | 100 | 539 | 628 |
| ANTENATAL CARE | | | |
| Hospital | 11 | 105 | 636 |
| Health centre | 40 | 386 | 157 |
| Maternity | 3 | 32 | 61 |
| Clinic | 1 | 5 | 42 |
| Dispensary | 45 | 437 | 104 |
| Stand-alone VCT | 0 | 2 | 10 |
| Total | 100 | 967 | 1,010 |
| SEXUALLY TRANSMITTED INFECTIONS | | | |
| Hospital | 15 | 18 | 128 |
| Health centre | 44 | 52 | 24 |
| Maternity | 2 | 2 | 3 |
| Clinic | 1 | 2 | 11 |
| Dispensary | 37 | 43 | 12 |
| Stand-alone VCT | 0 | 0 | 0 |
| Total | 100 | 116 | 178 |

2.3 Training and Data Collection

2.3.1 Pretest

The 2004 KSPA questionnaires were pretested in 12 facilities over a two-week period in July 2004. A total of 23 interviewers comprising of 11 nurses and 12 social scientists completed a week (July 11-17, 2004) of intensive training in Nakuru followed by data collection (July 20-22) in facilities in Nairobi, Machakos, Kajiado and Nakuru.

2.3.2 Main training and survey

A total of 74 interviewers (3 clinical officers, 53 nurses and 18 social scientists) completed 3 weeks of training (August 22-September 11) for the main survey. Training included classroom lectures/discussion and field practice.

Seventeen teams of 4 (3 in some cases) interviewers collected data from 440 health facilities throughout Kenya. Each team consisted of nurses and at least one social scientist. Data collection included a review of the facility's resources, interviews with service providers, observations of consultations between providers and clients, and interviews with clients or caretakers of sick children following consultations.

Four of the trained interviewers were selected as field supervisors to help supervise the other teams during data collection.

Data collection began September 17, 2004 and was completed December 31, 2004.

2.4 Data Analysis

The following conventions were observed during the analysis of the KSPA 2004 data:

- **Assessing the availability of items:** unless specifically indicated, the KSPA 2004 considered only observed items to be available;
- **Observations:** Many facilities provide routine services for clients separately from the actual consultations (e.g., taking blood pressure), and there is often a period between these events and the time the primary provider assesses the client. Since it is not logistically always possible to follow a client through the entire system, whenever these services were observed being provided outside the consultation room on the day of the survey, the observed client was assumed to have received these services. Where this system is used, multiple providers contribute to the services received by each client. The provider who ultimately diagnosed and prescribed was defined as the primary provider.

III. RESULTS

3.1 Availability of Basic Services

The availability of a basic package of maternal, child, and reproductive health services and the frequency with which the services are offered are key elements influencing client utilisation. The basic services of interest are curative care for children, child immunisation and growth monitoring, any services for STIs, temporary methods of family planning, antenatal care (ANC), and delivery services. Table 3.1 provides both detailed and aggregate information on the availability of basic services by type of facility.

Before discussing the table in detail, it is important to note that the availability of the basic services are generally low in stand-alone VCT centres, since these centres are very specialised service-delivery points.

| Background characteristics | Percentage by type of facility | | | | | | Total |
|---|--------------------------------|---------------|-----------|--------|------------|-----------------|-------|
| | Hospital | Health centre | Maternity | Clinic | Dispensary | Stand-alone VCT | |
| Services | | | | | | | |
| Curative care for children | 98 | 100 | 93 | 94 | 96 | 4 | 95 |
| Child immunisation | 96 | 86 | 70 | 42 | 82 | 4 | 81 |
| Growth monitoring | 93 | 88 | 81 | 49 | 77 | 4 | 80 |
| Any service for sexually transmitted infections (STI) | 97 | 97 | 93 | 99 | 91 | 6 | 92 |
| Temporary methods of family planning | 83 | 85 | 87 | 66 | 68 | 4 | 73 |
| Antenatal care (ANC) | 84 | 86 | 76 | 53 | 77 | 4 | 78 |
| Packages of services available | | | | | | | |
| All basic services at any frequency ¹ | 66 | 65 | 52 | 30 | 55 | 4 | 57 |
| Facility-based 24-hour delivery services | 93 | 64 | 87 | 10 | 7 | 4 | 32 |
| At least one qualified staff ² | 100 | 100 | 100 | 98 | 99 | 23 | 98 |
| All services, minimum frequency ³ | 53 | 54 | 46 | 28 | 39 | 4 | 44 |
| All services, minimum frequency and 24-hour delivery services | 50 | 34 | 42 | 6 | 3 | 4 | 16 |
| All services with minimum frequency, 24-hour delivery services, and with at least one qualified staff | 50 | 34 | 42 | 6 | 3 | 4 | 16 |
| Number of facilities (weighted) | 28 | 125 | 20 | 8 | 240 | 10 | 440 |

¹ Any level of the following: curative care for children, any STI services, temporary methods of family planning, antenatal care, immunisation, and child growth monitoring.

² Qualified staff (providers of curative care) include enrolled nurses, enrolled midwives, registered nurses, registered midwives, clinical officers and medical doctors.

³ Curative services for children provided 5 days/week, STI services at least 1 day/week, preventive or elective services (temporary methods of family planning, antenatal care) provided at least 1 day/week.

Curative care for children and STI services are nearly universally available across all facility types. Child immunisation and growth monitoring services are offered in most facilities, except in clinics, where less or up to half offer these services. Similarly, a large majority of facilities offer antenatal care (ANC) and family planning (temporary methods) services, except for clinics, which offer them in between half and two-thirds of cases.

In the case of the few stand-alone VCT centres assessed, very small percentages (typically 4 percent) report offering either basic or package services. Twenty-three percent of VCT centres have at least one qualified staff in them.

In terms of packages of services, it is important to note that according to interviewees' responses, all facilities have at least one qualified staff. In general, about two-thirds of hospitals and health centres offer all basic services mentioned above. When minimum frequency of services and the availability of 24-hour delivery services are brought into the picture, only 50 percent of hospitals are able to offer this full package. Obviously, because of the nature of their specialised services (e.g., maternities), or the lack of complexity of their systems (e.g., clinics or dispensaries) fewer other facilities can offer full packages of services.

3.2 Staffing Pattern

Tables 3.2 and 3.3 provide information on the staffing pattern reported at KSPA facilities, showing the median number of health care providers assigned to outpatient services, by staff qualifications.

Table 3.2 Staffing patterns at KSPA facilities

Median number of health care providers assigned to outpatient services by type of provider and type of facility, Kenya SPA 2004

| Type of facility | Median number of providers assigned to each facility | | | | | | | | | | Number of facilities (weighted) |
|----------------------------|--|--------|------------------|------------------|--------------------|----------------|------------------|----------------------------|-----------------|-------------|---------------------------------|
| | Total staff | Doctor | Clinical officer | Registered nurse | Registered midwife | Enrolled nurse | Enrolled midwife | Any nursing/ midwife staff | Other technical | Other staff | |
| National referral hospital | 1,570 | 37 | 45 | 17 | 161 | 18 | 258 | 451 | 175 | 843 | 0 |
| Provincial hospital | 396 | 17 | 23 | 33 | 28 | 49 | 180 | 293 | 49 | 15 | 1 |
| Other hospital | 55 | 3 | 3 | 2 | 3 | 4 | 6 | 21 | 9 | 11 | 27 |
| Health centre | 11 | - | 1 | - | - | 1 | 1 | 5 | 2 | 3 | 125 |
| Maternity | 10 | 1 | 1 | - | - | - | 2 | 4 | 2 | 3 | 20 |
| Clinic | 4 | - | - | - | - | - | - | 2 | 2 | 1 | 8 |
| Dispensary | 4 | - | - | - | - | - | 1 | 2 | - | 1 | 249 |
| Stand-alone VCT | 7 | - | - | - | - | - | - | - | 5 | 1 | 10 |
| Total | 6 | - | - | - | - | - | 1 | 3 | 1 | 2 | 440 |

Note: A hyphen indicates that there were insufficient numbers to include in the table.

From the table above it can be seen that, as expected, hospitals (national referral, provincial general, and other hospitals) have the largest number and variety of staff, and also highest qualifications among them. Primary-level facilities have mostly midwives, technical and other types (auxiliary) of personnel. Similarly, hospitals of different types have the largest numbers of technologists and social workers/counsellors. A few laboratory personnel can be found at lower levels of care and some social workers/counsellors are obviously found in VCT centres.

Table 3.3 Other technical staff distribution in KSPA facilities

Median number of selected "Other technical" staff assigned to outpatient services by staff type and type of facility, Kenya SPA 2004

| Type of facility | Median number of selected technical staff assigned to each facility | | |
|----------------------------|---|---|---------------------------|
| | Lab technologist/ technician | Pharmacist/ pharmaceutical technologist | Social worker/ counsellor |
| National referral hospital | 87 | 27 | 17 |
| Provincial hospital | 21 | 8 | 14 |
| Other hospital | 4 | 2 | 2 |
| Health centre | 1 | 0 | 0 |
| Maternity | 2 | 0 | 0 |
| Clinic | 1 | 0 | 0 |
| Stand-alone VCT | 0 | 0 | 4 |

3.3 Infection Control

Infections acquired in hospitals, otherwise known as nosocomial infections, very often complicate the delivery of health care in facilities. Strict control measures are necessary to prevent the spread of such infections. The following items were assessed for infection control: soap and running water for hand washing, sharps box, latex gloves and disinfecting solutions, such as chlorine solution (in areas where reusable equipment might be contaminated by blood or other bodily fluids) in any relevant service delivery areas, and in all service area. A total of 1,233 service delivery sites were assessed in 440 facilities. Table 3.4 provides information on the elements for preventing nosocomial infections. The left half presents both the percentage of facilities that have the indicated elements in any service site of the facility and in all relevant areas (e.g., water in any place/in all examination rooms or areas). The right side of the table presents the percentage of facilities that have supplies for infection control in stock the day of the survey.

Table 3.4 Elements for preventing nosocomial infections

Percentage of facilities with the indicated elements for infection control in all assessed service sites, Kenya SPA 2004

| Background characteristics | Percent of facilities with indicated items present in any/all relevant service areas ¹ | | | | | Percentage of facilities with functioning equipment for sterilisation or HLD processing ⁶ | Percentage of facilities with stock supplies for infection control present ² | | | | Number of facilities (weighted) | Number of service sites ⁸ (weighted) |
|----------------------------|---|--------------|---------------|-------------------------|--------------------------------|--|---|------------------|--------------|--------------------------------|---------------------------------|---|
| | Running water ³ | Soap | Latex gloves | Sharps box ⁴ | Chlorine solution ⁵ | | Disinfectant (bleach) | Needles/syringes | Latex gloves | All items present ⁷ | | |
| Type of facility | | | | | | | | | | | | |
| Hospital (all types) | 96/0 | 99/48 | 99/68 | 99/47 | 88/9 | 92 | 83 | 73 | 48 | 43 | 28 | 303 |
| Health centre | 60/0 | 92/60 | 100/84 | 97/78 | 73/30 | 56 | 72 | 76 | 42 | 28 | 125 | 438 |
| Maternity | 77/0 | 94/59 | 100/81 | 100/53 | 83/21 | 74 | 66 | 87 | 48 | 41 | 20 | 90 |
| Clinic | 63/2 | 89/76 | 95/89 | 83/64 | 58/26 | 55 | 70 | 86 | 51 | 41 | 8 | 15 |
| Dispensary | 62/0 | 92/86 | 100/95 | 91/86 | 55/36 | 59 | 79 | 78 | 44 | 28 | 249 | 365 |
| Stand-alone VCT | 82/0 | 98/73 | 100/82 | 95/70 | 56/34 | 6 | 8 | 6 | 2 | 0 | 10 | 22 |
| Managing Authority | | | | | | | | | | | | |
| Government | 60/0 | 90/68 | 100/89 | 96/82 | 66/37 | 51 | 69 | 67 | 37 | 15 | 246 | 686 |
| NGO | 77/0 | 99/75 | 100/78 | 98/74 | 39/19 | 74 | 75 | 67 | 22 | 20 | 21 | 60 |
| Private (for profit) | 78/0 | 92/73 | 100/86 | 92/66 | 63/26 | 68 | 74 | 86 | 62 | 54 | 63 | 234 |
| FBO | 65/0 | 97/90 | 100/93 | 89/80 | 64/24 | 71 | 89 | 93 | 48 | 48 | 110 | 253 |
| Province | | | | | | | | | | | | |
| Nairobi | 83/0 | 99/71 | 100/95 | 91/57 | 75/18 | 58 | 79 | 79 | 35 | 30 | 41 | 154 |
| Central | 85/0 | 90/78 | 100/97 | 95/90 | 59/30 | 76 | 74 | 80 | 47 | 41 | 50 | 124 |
| Coast | 55/0 | 81/58 | 100/92 | 94/76 | 67/33 | 54 | 71 | 78 | 32 | 24 | 49 | 218 |
| Eastern | 84/0 | 100/80 | 100/92 | 89/85 | 94/67 | 47 | 86 | 81 | 29 | 29 | 83 | 229 |
| North Eastern | 31/0 | 78/52 | 93/74 | 92/71 | 42/15 | 31 | 79 | 28 | 47 | 12 | 8 | 16 |
| Nyanza | 41/0 | 98/83 | 100/95 | 99/87 | 59/41 | 67 | 72 | 65 | 40 | 22 | 54 | 130 |
| Rift Valley | 62/0 | 92/78 | 100/79 | 93/74 | 44/13 | 55 | 68 | 79 | 53 | 27 | 126 | 273 |
| Western | 34/0 | 83/58 | 100/92 | 100/87 | 62/17 | 94 | 80 | 69 | 62 | 45 | 29 | 90 |
| Total | 65/0 | 93/74 | 100/89 | 94/79 | 64/31 | 60 | 75 | 76 | 43 | 29 | 440 | 1,233 |

¹ Relevant service sites refer to the areas and rooms in both outpatient and inpatient units where clients with HIV/AIDS-related illnesses or those receiving HIV/AIDS-related services (including drawing of blood for HIV testing) are examined. If there are several rooms or areas in a unit for the same purpose, one is randomly picked and assessed

² These items are assessed in any storage area (e.g., a stock supply)

³ Running water here implies piped water, or water in a container with a tap such that water "flows" when needed, and water is not reused

⁴ To qualify as a sharps box or container, it must be made of a substance that a needle cannot readily penetrate, and must have a sealed lid that has only a small opening to allow the sharp object to be placed inside

⁵ The solution must already be mixed in a container

⁶ Equipment for sterilisation or High Level Disinfection (HLD) include an autoclave, dry heat steriliser, pot with cover for steam or boiling (with a heat source), or the necessary chemicals for chemical disinfection (such as chlorine bleach)

⁷ Disinfectant (bleach), needles/syringes and latex gloves are all present in the storage location

⁸ There may be several locations within the same facility where the same service is offered. Each such location is defined as a service site.

The availability of water in a facility (or even in a service delivery area) does not imply that providers will wash hands before seeing, and between clients. However, to increase the likelihood of providers doing so, water and soap must be available in the area where clients are being seen, or in an immediately adjacent area. Since water is usually present somewhere in the facility but not in all relevant areas (e.g., in all consultation rooms), the percentages fall from high values to zero in almost all cases. Water is present in any area in most places, except in Western, North Eastern and Nyanza provinces.

In the case of soap, latex gloves, and sharps box, there are no substantial differences in percentages between their availability in any and all areas, implying that in most places where they were needed they were present. However, in the case of chlorine solution, the percentage drops to half (from 64 to 31 percent), implying that it was not present in half of the required areas. There are no appreciable differences by type of facility, managing authority, or province, with these items.

Sterilisation or high-level disinfection (HLD) processing are usually sufficient to prepare reusable syringes and most examination equipments for reuse, however, in order to ensure that spores (e.g., tetanus) are eliminated, either dry heat sterilisation or autoclave systems (or the less frequently used chemical sterilisation) are required. About 6 in 10 facilities have functioning equipment for sterilisation or HLD processing. Hospitals, FBO and NGO facilities are more likely to have functioning equipment for sterilisation or HLD available. North Eastern and Eastern provinces have the lowest proportions of facilities with functioning equipment for sterilisation and HLD.

The availability of a disinfectant (bleach), needles and syringes and latex gloves was assessed in storage locations. All items are available in only 29 percent of facilities. Bleach is available in 75 percent, needles and syringes in 76 percent, whereas latex gloves are available in only 43 percent of storage locations of facilities. Stand-alone VCT centres, government facilities and facilities in the North Eastern province are the least likely to have these items in storage.

3.4 Child Health Services

The KSPA uses the IMCI guidelines as the basis for assessing child health services, and the observations of sick child consultations conducted in the KSPA provide the basis for assessing whether providers are adhering to standards for providing quality services. Table 3.5 provides detailed information on the assessments and examinations conducted during sick child consultations.

The IMCI guidelines are based on two major principles. All sick children must be: i) routinely assessed for major symptoms: cough or difficult breathing, diarrhoea, fever, ear problems, nutritional and immunisation status, feeding problems, and other potential problems; and, ii) examined for "general danger signs" which indicate the need for immediate referral or admission to a hospital.³

Assessment of Major Signs and Symptoms

Fever was the most commonly assessed symptom (80 percent) followed by cough/difficult breathing (73 percent) and diarrhoea (35 percent). Symptoms related to ear problems were the least often assessed (9 percent). Assessment of all four symptoms was observed in only 3 percent of cases.

By type of facility, all 4 symptoms were assessed most often in hospitals (8 percent) followed by clinics (6 percent) and health centres (5 percent). Though there are no clear patterns on individual assessments, relatively larger proportion of government and FBO facilities assess all symptoms (4 and 3 percent, respectively). Facilities in the Western province assessed symptoms more consistently (31 percent).

Examinations performed on sick children

The most commonly performed examination was the assessment of fever (75 percent), either by touch or by use of a thermometer. Assessment of fever was noted less often in health centres, government facilities and facilities in the Eastern province (Figure 3.1). Undressing a child to examine/assess musculature and the assessment of anaemia were both observed in 45 percent of cases. Undressing was done substantially less among NGOs and in the North Eastern province, while assessing for anaemia was less carried out in Central and Eastern provinces. On the other hand, the assessment of anaemia was done in much higher proportions in maternities and in the Western province. Fewer facilities of all types assessed respiratory, ear and dehydration problems, and few providers assessed pedal oedema, except in the Western province. Generally, in only 1 percent of cases did a provider perform all the indicated examinations.

³ World Health Organisation (WHO) and UNICEF. 2001. IMCI: Integrated management of childhood illness. Paris, France.

Figure 3.1 Elements of Physical Examination Conducted during Observed Sick Child Consultations (N=1,378)

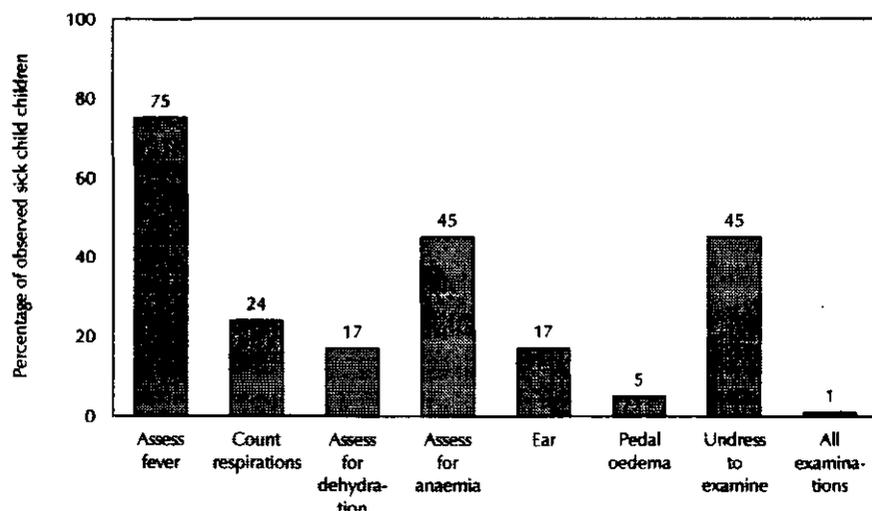


Table 3.5 History and examinations conducted for observed sick child assessments

Percentage of observed sick child assessments where the indicated assessment or examination was conducted, Kenya SPA 2004

| Background characteristics | Percentage where history was elicited for indicated symptoms: | | | | | Percentage where examination was observed | | | | | | | Number of observed sick child assessments (weighted) | |
|-------------------------------------|---|-----------|-----------|-------------|-------------------|---|--------------------|-------------------------------------|---------------------------------|------------------|--------------|--------------------|--|------------------|
| | Cough or difficult breathing | Diarrhoea | Fever | Ear problem | All four symptoms | Assess fever ¹ | Count respirations | Assess for dehydration ² | Assess for anaemia ³ | Ear ⁴ | Pedal oedema | Undress to examine | | All examinations |
| Type of facility⁵ | | | | | | | | | | | | | | |
| Hospital | 79 | 41 | 80 | 13 | 8 | 84 | 39 | 35 | 63 | 25 | 11 | 50 | 4 | 102 |
| Health centre | 74 | 39 | 80 | 11 | 5 | 69 | 22 | 15 | 45 | 16 | 5 | 48 | 1 | 539 |
| Maternity | 59 | 42 | 81 | 12 | 3 | 94 | 53 | 32 | 81 | 37 | 13 | 50 | 3 | 26 |
| Clinic | 77 | 49 | 86 | 15 | 6 | 86 | 47 | 33 | 57 | 23 | 7 | 48 | 3 | 14 |
| Dispensary | 72 | 31 | 79 | 7 | 1 | 77 | 21 | 14 | 40 | 17 | 4 | 42 | 0 | 696 |
| Managing authority | | | | | | | | | | | | | | |
| Government | 74 | 35 | 80 | 9 | 4 | 69 | 19 | 17 | 45 | 18 | 5 | 46 | 1 | 978 |
| NGO | 83 | 38 | 71 | 4 | 0 | 82 | 38 | 21 | 62 | 27 | 4 | 25 | 4 | 49 |
| Private for | 76 | 34 | 74 | 7 | 1 | 83 | 46 | 19 | 40 | 17 | 7 | 50 | 1 | 111 |
| FBO | 67 | 36 | 82 | 9 | 3 | 93 | 30 | 16 | 41 | 13 | 6 | 43 | 1 | 240 |
| Province | | | | | | | | | | | | | | |
| Nairobi | 74 | 32 | 77 | 8 | 1 | 83 | 26 | 16 | 51 | 18 | 5 | 54 | 1 | 188 |
| Central | 82 | 30 | 82 | 7 | 4 | 82 | 13 | 14 | 16 | 11 | 1 | 57 | 0 | 149 |
| Coast | 67 | 32 | 80 | 6 | 2 | 74 | 37 | 12 | 36 | 12 | 5 | 28 | 0 | 167 |
| Eastern | 75 | 29 | 72 | 7 | 2 | 53 | 5 | 5 | 21 | 5 | 1 | 30 | 1 | 273 |
| North Eastern | 83 | 35 | 86 | 3 | 0 | 62 | 47 | 9 | 31 | 8 | 0 | 20 | 0 | 15 |
| Nyanza | 60 | 37 | 88 | 3 | 0 | 83 | 25 | 23 | 68 | 10 | 9 | 45 | 1 | 174 |
| Rift Valley | 75 | 38 | 79 | 9 | 0 | 77 | 21 | 18 | 57 | 33 | 1 | 55 | 0 | 327 |
| Western | 83 | 66 | 93 | 38 | 31 | 94 | 73 | 55 | 82 | 31 | 40 | 54 | 8 | 85 |
| Total | 73 | 35 | 80 | 9 | 3 | 75 | 24 | 17 | 45 | 17 | 5 | 45 | 1 | 1,378 |

¹ Either through measuring temperature or by feel

² Check skin turgor using pinch method

³ Either through checking palms, conjunctiva, or gum/mouth

⁴ Both look in ears and feel behind ears

⁵ Stand-alone VCT facilities not eligible

Advice to caretakers

An essential component of the IMCI guidelines is the counselling of caretakers about home management of child sickness, including counselling about feeding, fluid intake and also when to send the child back to a health facility. Table 3.6 provides information on essential counselling provided to caretakers of sick children.

| Table 3.6 Essential counselling provided to caretakers of sick children | | | | | | |
|---|--|--------------------------------------|----------------------------------|--|-------------------|--|
| Percentage of observed sick child assessments where the indicated counselling was provided to the caretaker, Kenya SPA 2004 | | | | | | |
| Background characteristics | Percentage observed receiving information on: | | | | | Number of observed sick child assessments (weighted) |
| | Feeding/ breastfeeding child, even when not sick | Providing extra fluids to sick child | Continuing feeding of sick child | Signs/ symptoms for which to send child back to a facility/ provider | All four messages | |
| Type of facility¹ | | | | | | |
| Hospital | 23 | 20 | 29 | 21 | 9 | 102 |
| Health centre | 17 | 16 | 20 | 14 | 3 | 539 |
| Maternity | 34 | 22 | 38 | 27 | 9 | 26 |
| Clinic | 19 | 18 | 31 | 28 | 4 | 14 |
| Dispensary | 14 | 17 | 16 | 15 | 4 | 696 |
| Managing authority | | | | | | |
| Government | 17 | 17 | 18 | 14 | 4 | 978 |
| NGO | 4 | 16 | 27 | 17 | 0 | 49 |
| Private for profit | 18 | 16 | 22 | 21 | 3 | 111 |
| FBO | 13 | 18 | 22 | 19 | 7 | 240 |
| Province | | | | | | |
| Nairobi | 11 | 11 | 27 | 20 | 3 | 188 |
| Central | 39 | 43 | 41 | 23 | 13 | 149 |
| Coast | 6 | 19 | 19 | 10 | 2 | 167 |
| Eastern | 10 | 9 | 6 | 9 | 0 | 273 |
| North Eastern | 3 | 5 | 7 | 5 | 0 | 15 |
| Nyanza | 17 | 19 | 15 | 15 | 1 | 174 |
| Rift Valley | 10 | 10 | 14 | 10 | 1 | 327 |
| Western | 54 | 35 | 36 | 48 | 23 | 85 |
| Total | 16 | 17 | 19 | 16 | 4 | 1,378 |

¹ Stand-alone VCT facilities not eligible

Advice to caretakers on any aspect of home management was uncommon, given in less than 20 percent of all observed sick child consultations. Providers in maternities, NGO facilities and in the Central and Western provinces were more likely to provide advice on three of several aspects of management, while counselling on home management is hardly done by providers in the Eastern and North Eastern provinces. In only 4 percent of cases did a provider advise caretakers on all 4 topics.

Caretaker knowledge

Caretakers of children whose consultations were observed were interviewed prior to their leaving the facility. Generally, only few women were able to mention these signs and symptoms (table not shown), such as when the child illness becomes worse (18 percent) or when s/he has fever (11 percent). Relatively more women from NGO facilities (56 percent) or from facilities in Coast province (36 percent) could mention some signs/symptoms. Seventy-six percent of all interviewed caretakers were unable to name a single sign/symptom for which to bring a sick child back to a facility (table not shown).

Child vaccines

The availability of child vaccines was assessed at eligible facilities, i.e. facilities that store vaccines and provide immunisation services. Table 3.7 provides detailed information on vaccine availability on the day of the survey.

Table 3.7 Availability of child vaccines

Among facilities offering child immunisation services and routinely storing vaccines, percentage with the indicated child vaccine observed on the day of the survey, Kenya SPA 2004

| Background characteristics | Percentage of facilities offering immunisation services and storing vaccines with vaccine observed | | | | | | | | | | | Number of facilities offering child immunisation services and storing vaccines (weighted) | |
|-------------------------------------|--|-----------|-----------|--------------|-----------|-----------|-------------|---------------|--------------|---|---|---|--------------------------------------|
| | BCG | Polio | DPT | Penta-valent | Any DPT | Measles | Hepatitis B | Any hepatitis | Yellow fever | All basic child vaccines available ¹ | All basic child vaccines plus hepatitis available | | Tetanus toxoid in area with vaccines |
| Type of facility² | | | | | | | | | | | | | |
| Hospital | 88 | 93 | 25 | 95 | 95 | 94 | 21 | 96 | 8 | 84 | 84 | 97 | 25 |
| Health centre | 90 | 90 | 23 | 85 | 92 | 84 | 5 | 85 | 0 | 79 | 72 | 87 | 107 |
| Maternity | 97 | 94 | 31 | 97 | 97 | 100 | 3 | 97 | 0 | 91 | 91 | 95 | 14 |
| Clinic | 77 | 97 | 42 | 90 | 100 | 97 | 23 | 100 | 0 | 77 | 77 | 100 | 3 |
| Dispensary | 91 | 94 | 27 | 94 | 94 | 95 | 4 | 94 | 6 | 89 | 89 | 95 | 182 |
| Managing authority | | | | | | | | | | | | | |
| Government | 88 | 89 | 27 | 87 | 91 | 89 | 3 | 87 | 2 | 80 | 77 | 89 | 200 |
| NGO | 100 | 100 | 30 | 100 | 100 | 100 | 2 | 100 | 0 | 100 | 100 | 100 | 6 |
| Private (for profit) | 95 | 98 | 43 | 97 | 98 | 98 | 40 | 99 | 3 | 91 | 91 | 99 | 29 |
| Faith-based organisation | 94 | 99 | 19 | 98 | 98 | 95 | 1 | 98 | 9 | 93 | 93 | 99 | 96 |
| Province | | | | | | | | | | | | | |
| Nairobi | 99 | 100 | 9 | 99 | 100 | 94 | 9 | 100 | 0 | 92 | 92 | 100 | 25 |
| Central | 78 | 81 | 63 | 84 | 84 | 90 | 1 | 84 | 6 | 68 | 68 | 90 | 41 |
| Coast | 98 | 98 | 20 | 98 | 98 | 82 | 2 | 98 | 0 | 81 | 81 | 99 | 35 |
| Eastern | 85 | 85 | 15 | 78 | 85 | 86 | 1 | 78 | 0 | 77 | 70 | 85 | 59 |
| North Eastern | 99 | 100 | 10 | 100 | 100 | 93 | 0 | 100 | 0 | 92 | 92 | 99 | 7 |
| Nyanza | 99 | 100 | 41 | 93 | 100 | 100 | 2 | 93 | 0 | 99 | 92 | 93 | 45 |
| Rift Valley | 91 | 96 | 18 | 96 | 96 | 93 | 15 | 96 | 10 | 91 | 91 | 93 | 91 |
| Western | 92 | 90 | 23 | 96 | 96 | 100 | 2 | 96 | 0 | 85 | 85 | 100 | 27 |
| Total | 91 | 93 | 26 | 91 | 94 | 92 | 6 | 92 | 4 | 85 | 83 | 93 | 331 |

¹ BCG, polio, any DPT and measles

² Stand-alone VCT facilities not eligible

A total of 331 eligible facilities were assessed. Around nine in ten facilities had BCG, polio, measles and pentavalent vaccines available on the day of the survey. The availability of these vaccines did not follow any particular trend across the different facility types, managing authorities or provinces. Apparently, in accordance with a phasing out of DPT-only vaccination, in favour of a pentavalent regime, DPT-only vaccines were found in only 26 percent of facilities (Figure 3.2). Yellow fever and Hepatitis B vaccines were scantily available (4 and 6 percent, respectively). In general, a large majority of facilities have all basic child vaccines (85 percent) and all these vaccines plus Hepatitis (83 percent).

Protocols and teaching materials

In order for providers to perform according to standards, they need to have readily available guidelines and protocols for constant reference. Table 3.8 presents a description of different protocols and teaching materials for child care available in facilities on the day of survey. Clinical guidelines are available in only 21 percent of facilities, and they are found more in the Coast and Western provinces (54 and 42 percent, respectively). Medical protocols for child illness are found in even fewer facilities (8 percent), except in hospitals (21 percent), among NGOs (22 percent) and in the Coast, North Eastern and Western provinces.

Figure 3.2 Availability of Child Vaccines among Facilities Offering Vaccination Services and Storing Vaccines (N=331)

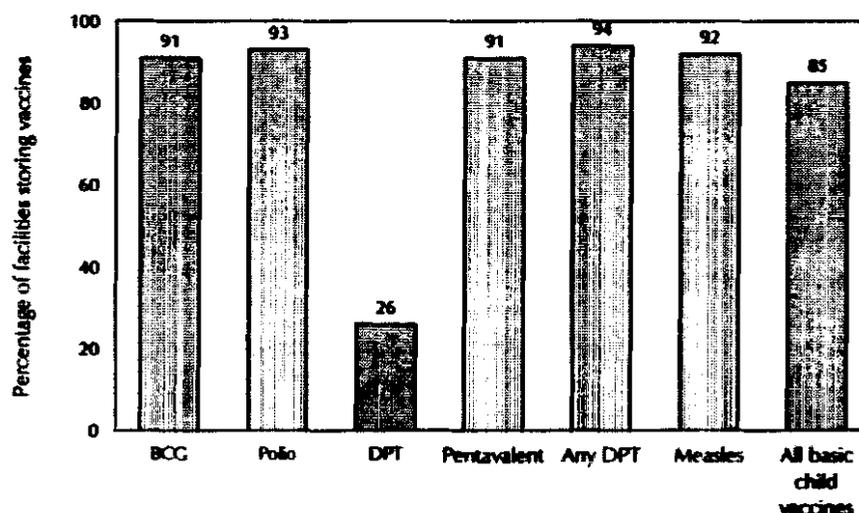


Table 3.8 Description of different guidelines and teaching materials available

Among facilities providing outpatient care for sick children, percentage where indicated guideline or client educational aid was available in the child health service delivery area. Kenya SPA 2004

| Background characteristics | Percentage of facilities offering sick child services with: | | | | | Number of facilities offering sick child services (weighted) |
|-------------------------------------|---|-------------------------------------|-------------------|---------------------|--|--|
| | IMCI chart booklet | IMCI counselling cards for provider | IMCI mother cards | Clinical guidelines | Medical protocols for children's illnesses | |
| Type of facility¹ | | | | | | |
| Hospital | 20 | 12 | 9 | 28 | 21 | 28 |
| Health centre | 10 | 5 | 4 | 21 | 15 | 125 |
| Maternity | 0 | 0 | 1 | 11 | 7 | 19 |
| Clinic | 6 | 0 | 0 | 18 | 4 | 7 |
| Dispensary | 11 | 4 | 6 | 22 | 3 | 238 |
| Managing authority | | | | | | |
| Government | 12 | 6 | 4 | 23 | 9 | 236 |
| NGO | 11 | 1 | 0 | 14 | 22 | 16 |
| Private (for profit) | 15 | 0 | 14 | 26 | 4 | 57 |
| Faith-based organisation | 6 | 5 | 5 | 16 | 6 | 108 |
| Province | | | | | | |
| Nairobi | 21 | 16 | 17 | 10 | 11 | 32 |
| Central | 1 | 1 | 1 | - | 1 | 47 |
| Coast | 34 | 8 | 8 | 54 | 28 | 48 |
| Eastern | 1 | 1 | 1 | 11 | 2 | 76 |
| North Eastern | 16 | 11 | 11 | 11 | 20 | 8 |
| Nyanza | 8 | - | 4 | 11 | - | 51 |
| Rift Valley | 8 | 1 | 6 | 14 | 2 | 124 |
| Western | 24 | 14 | 1 | 42 | 23 | 28 |
| Total | 11 | 5 | 5 | 21 | 8 | 418 |

¹ Stand-alone VCT facilities not eligible

More generic child-related materials such as IMCI chart booklets, counselling cards for providers and mothers' cards are available in very few facilities even though these are important for the provision of quality child health services.

3.5 Family Planning Services

The KSPA collected information on the availability of family planning services, and clients' perceptions on a variety of issues related to their experience in the facility and on services received. Tables 3.9 through 3.12 provide detailed information gathered from family planning clients as they left the service or facility, on their knowledge on a variety of topics related to their encounter with the provider, and on the family planning method they were prescribed or currently using.

Counselling on safe use of method

Providers of family planning methods are expected to share some basic information with their clients, specifically information on how to use the prescribed method, all possible side effects, what to do when method-related problems arise, and when to return for follow up.

Around seven in ten interviewed clients said the provider gave them information on how to use the prescribed method and when to return for follow up, respectively. However, only half of interviewed clients said the provider gave information on possible side effects and on what to do in case of method-related problems. Forty-four percent said they were given all four messages (Table 3.9). Relatively fewer clinics and NGO facilities (48 and 41 percent) and those in the Eastern and North Eastern provinces (42 and 43 percent) provide information on how to use the method. Again, a substantially lower percentage (22 percent) of NGO facilities is reported to provide information on side effects of methods.

| Background characteristics | Percentage reporting the indicated information was provided | | | | | Number of interviewed family planning clients (weighted) |
|-------------------------------------|---|-----------------------------------|---|-----------------------------|----------------------------|--|
| | How to use the method | Possible side effects from method | What to do for problems related to method | When to return for followup | All four messages provided | |
| Type of facility¹ | | | | | | |
| Hospital | 76 | 61 | 68 | 94 | 53 | 62 |
| Health centre | 75 | 45 | 53 | 96 | 37 | 255 |
| Maternity | 73 | 52 | 65 | 77 | 38 | 13 |
| Clinic | 48 | 47 | 59 | 84 | 31 | 3 |
| Dispensary | 65 | 55 | 54 | 97 | 51 | 196 |
| Managing authority | | | | | | |
| Government | 73 | 50 | 57 | 95 | 43 | 400 |
| NGO | 41 | 22 | 22 | 100 | 22 | 38 |
| Private for profit | 75 | 51 | 53 | 91 | 45 | 25 |
| FBO | 77 | 70 | 66 | 99 | 64 | 67 |
| Province | | | | | | |
| Nairobi | 70 | 54 | 45 | 89 | 38 | 52 |
| Central | 75 | 53 | 53 | 86 | 46 | 45 |
| Coast | 86 | 35 | 67 | 95 | 34 | 71 |
| Eastern | 42 | 29 | 29 | 97 | 22 | 133 |
| North Eastern | 43 | 43 | 86 | 100 | 29 | 1 |
| Nyanza | 84 | 51 | 53 | 97 | 48 | 33 |
| Rift Valley | 84 | 71 | 75 | 99 | 68 | 146 |
| Western | 83 | 66 | 66 | 100 | 53 | 49 |
| Total | 71 | 51 | 55 | 96 | 44 | 529 |

¹ Stand-alone VCT facilities not eligible

Knowledge of key information

Table 3.10 describes clients' key knowledge on their prescribed family planning method. Almost all users of pills and injections seem well informed about the use of their methods. With the few condom users interviewed, a large majority (89 percent) reported knowing how many times a condom could be used (once), and also most clients know that the method protects against STIs and the correct type of lubricant to use for both the male and female condom (table not shown). Note that the majority of all interviewed family planning clients were concentrated in health centres and dispensaries, and in government facilities, and also that there were more injection contraceptive users interviewed than pill users.

Table 3.10 Reported knowledge of key information for family planning method being used

Among observed and interviewed family planning clients, percentage who knew key information about use of their method of family planning, Kenya SPA 2004

| Background characteristics | Percentage of pill users who knew how often to take the pill | Number of interviewed pill users (weighted) | Percentage of injection users who knew how long the injection protected against pregnancy | Number of interviewed injection users (weighted) | Total number of interviewed family planning clients (weighted) |
|-------------------------------------|--|---|---|--|--|
| Type of facility¹ | | | | | |
| Hospital | 100 | 8 | 99 | 49 | 57 |
| Health centre | 100 | 66 | 97 | 186 | 251 |
| Maternity | 66 | 2 | 100 | 8 | 9 |
| Clinic | - | 0 | 100 | 2 | 2 |
| Dispensary | 100 | 24 | 99 | 170 | 196 |
| Managing authority | | | | | |
| Government | 100 | 90 | 98 | 297 | 389 |
| NGO | 100 | 5 | 100 | 31 | 37 |
| Private for profit | 64 | 1 | 88 | 23 | 24 |
| FBO | 93 | 4 | 100 | 63 | 66 |
| Province | | | | | |
| Nairobi | 100 | 14 | 95 | 30 | 45 |
| Central | 100 | 13 | 100 | 32 | 44 |
| Coast | 99 | 31 | 92 | 38 | 70 |
| Eastern | 100 | 18 | 100 | 114 | 132 |
| North Eastern | - | 0 | 71 | 1 | 1 |
| Nyanza | 100 | 7 | 99 | 25 | 32 |
| Rift Valley | 100 | 11 | 100 | 134 | 145 |
| Western | 93 | 6 | 91 | 40 | 48 |
| Total | 99 | 100 | 98 | 414 | 516 |

¹ Stand-alone VCT facilities not eligible

Reported perception of services

All interviewed family planning clients were asked whether certain problems frequently reported by client were big problems for them during their current visit to the facility and/or service provider. Such problems include long waiting time, no chance to discuss concerns with a provider, shortage of method/medicines and lack of privacy. As expected, not many clients are willing to critique the services they receive (Table 3.11). Long waiting time was the only big problem reported by more clients (20 percent), mostly from hospitals and health centres, in government facilities and facilities in the Eastern province. The other commonly reported problems were identified by fewer clients—less than 8 percent as a whole—except for lack of privacy (visual or auditory) reported by 17 percent of clients attending NGO facilities, and lack of availability of methods/medicines, also by 17 percent of clients from the Coast province. Between 13 and 15 percent of clients from the Western province also identify several of these common problems.

Table 3.11 Client feedback on services

Among observed and interviewed family planning (FP) clients, the percentage who reported they felt the indicated element was a large problem for them, in relation to the services they received the day of the survey, Kenya SPA 2004

| Background characteristics | Percentage | | | | | | | | Number of interviewed family planning clients (weighted) |
|-------------------------------------|-------------------|---|--------------------------------------|---|------------------------|--------------------------|-------------------------------|-------------------------|--|
| | Long waiting time | Inability to discuss concerns with provider | Not enough explanation from provider | Quality of examination and/or treatment | Lack of visual privacy | Lack of auditory privacy | Shortage of method/ medicines | Poorly treated by staff | |
| Type of facility¹ | | | | | | | | | |
| Hospital | 23 | 2 | 3 | 2 | 3 | 3 | 8 | 3 | 62 |
| Health centre | 24 | 1 | 2 | 2 | 3 | 4 | 8 | 3 | 255 |
| Maternity | 0 | 0 | 6 | 0 | 0 | 0 | 3 | 0 | 13 |
| Clinic | 6 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 3 |
| Dispensary | 15 | 1 | 2 | 1 | 4 | 4 | 7 | 1 | 196 |
| Managing authority | | | | | | | | | |
| Government | 26 | 2 | 3 | 2 | 2 | 3 | 9 | 3 | 400 |
| NGO | 0 | 0 | 0 | 0 | 17 | 17 | 0 | 0 | 38 |
| Private for profit | 5 | 0 | 3 | 0 | 2 | 2 | 5 | 0 | 25 |
| FBO | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 67 |
| Province | | | | | | | | | |
| Nairobi | 17 | 3 | 8 | 6 | 0 | 0 | 3 | 6 | 52 |
| Central | 16 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 45 |
| Coast | 18 | 0 | 1 | 4 | 0 | 0 | 17 | 0 | 71 |
| Eastern | 38 | 0 | 0 | 0 | 1 | 1 | 10 | 0 | 133 |
| North Eastern | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 1 |
| Nyanza | 16 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 33 |
| Rift Valley | 9 | 0 | 0 | 0 | 5 | 7 | 6 | 2 | 146 |
| Western | 17 | 7 | 13 | 5 | 15 | 15 | 2 | 6 | 49 |
| Total | 20 | 1 | 2 | 2 | 3 | 4 | 7 | 2 | 529 |

¹ Stand-alone VCT facilities not eligible

Family planning teaching and visual aids

Teaching and visual aids are important tools to help a provider communicate information to clients. Table 3.12 provides information on specific teaching and visual aids for family planning available in facilities on the day of the survey. This information was assessed in 326 eligible facilities, i.e. facilities that provide family planning services.

Overall, samples of different temporary family planning methods are available in two-thirds of facilities, posters on family planning in 59 percent and models for demonstrating condoms in half of all facilities. All these three items are available more often in hospitals than in other types of facilities. Visual aids for STIs and HIV/AIDS are available in lesser frequency (21 and 24 percent of facilities).

Information for clients to take home

There is less availability of these materials. Relatively more information was available on family planning (FP) than on STIs or HIV/AIDS and dispensaries were least likely to have FP information available. Maternities were least likely to have information available for clients to take home on STIs and HIV/AIDS.

Table 3.12 Availability of specific teaching and visual aids

Among facilities offering family planning (FP) services, percentage where the indicated teaching tool or visual aid was available, Kenya SPA 2004

| Item | Percentage by type of facility | | | | | Total |
|---|--------------------------------|---------------|-----------|--------|------------|-------|
| | Hospital | Health centre | Maternity | Clinic | Dispensary | |
| Visual aids or teaching materials | | | | | | |
| Samples of different methods | 76 | 66 | 55 | 46 | 66 | 66 |
| Posters for general promotion of FP | 66 | 59 | 49 | 56 | 59 | 59 |
| Visual aids about sexually transmitted infections | 33 | 22 | 13 | 16 | 20 | 21 |
| Visual aids about HIV/AIDS | 28 | 21 | 17 | 21 | 26 | 24 |
| Model for demonstrating how to use condom | 54 | 47 | 45 | 29 | 52 | 50 |
| Information for client to take home | | | | | | |
| On family planning | 47 | 45 | 35 | 38 | 26 | 35 |
| On sexually transmitted infections | 10 | 20 | 7 | 8 | 11 | 14 |
| On HIV/AIDS | 19 | 29 | 5 | 18 | 9 | 16 |
| Service guidelines | | | | | | |
| Any family planning guidelines | 39 | 27 | 24 | 43 | 32 | 31 |
| WHO guidelines for syndromic management of STIs | 40 | 54 | 41 | 45 | 70 | 60 |
| Other guidelines for diagnosis and treatment of STIs | 11 | 15 | 11 | 11 | 11 | 12 |
| Number of facilities offering FP services (weighted) ¹ | 24 | 110 | 18 | 5 | 169 | 326 |

¹ Includes 2 stand-alone facilities that offer family planning services

Service protocols or guidelines

The most widely found protocol/guideline was the WHO guideline for syndromic management of STIs, available in an average 60 percent of facilities. Up to 70 percent of dispensaries had these. The reproductive health policy guidelines for service providers and all other guidelines were less often available.

3.6 Maternal Health Services

3.6.1 Antenatal care

Birth preparedness

Interviewers asked observed ANC clients whether providers discussed birth preparedness during the visit (Table 3.13).

While half of all interviewed clients said a provider asked them about their birth plans (either during this or at previous visit), only 37 percent said a provider discussed items/preparations to make prior to delivery with them. On the other hand, a higher proportion (78 percent) of interviewed clients said they had already decided where they would deliver. Only 22 percent responded positively to all 3 items for birth preparedness.

Surprisingly, fewer clients in maternities than in other facilities said providers asked them about birth plans or discussed items to prepare prior to delivery. This corresponds with a relatively lower percentage of clients having decided where they plan to deliver compared with hospitals, clinics and dispensaries.

| Table 3.13 Reported provider counselling and mothers' decisions for birth preparedness | | | | | |
|--|--|--|---|--|--|
| Among observed and interviewed ANC clients, the percentage who reported the indicated item related to birth preparedness, Kenya SPA 2004 | | | | | |
| Background characteristics | Percentage reporting | | | | Number of interviewed ANC clients (weighted) |
| | Provider asked them about their birth plans ¹ | Provider discussed items/ preparations to make prior to delivery | They have decided where they will deliver | All three items for birth preparedness | |
| Type of facility² | | | | | |
| Hospital | 43 | 33 | 80 | 20 | 103 |
| Health centre | 44 | 35 | 73 | 19 | 380 |
| Maternity | 38 | 23 | 74 | 15 | 32 |
| Clinic | 47 | 30 | 85 | 17 | 5 |
| Dispensary | 57 | 41 | 82 | 25 | 433 |
| Managing authority | | | | | |
| Government | 47 | 42 | 77 | 26 | 616 |
| NGO | 46 | 7 | 64 | 7 | 28 |
| Private for profit | 56 | 39 | 74 | 17 | 103 |
| FBO | 55 | 25 | 84 | 13 | 204 |
| Province | | | | | |
| Nairobi | 48 | 35 | 83 | 17 | 91 |
| Central | 19 | 30 | 79 | 9 | 51 |
| Coast | 58 | 33 | 90 | 22 | 100 |
| Eastern | 48 | 48 | 84 | 29 | 167 |
| North Eastern | 26 | 20 | 78 | 11 | 5 |
| Nyanza | 47 | 24 | 72 | 20 | 159 |
| Rift Valley | 54 | 45 | 72 | 24 | 289 |
| Western | 54 | 23 | 77 | 17 | 89 |
| Total | 50 | 37 | 78 | 22 | 952 |
| ¹ Either during this or previous visit | | | | | |
| ² Stand-alone VCT facilities not eligible | | | | | |

Fewer clients from the Central province reported their providers had asked them about birth plans. NGO facilities had the smallest proportion of clients reporting that providers discussed all items for birth preparedness, and these clients were less certain on where they planned to deliver. There were no clear patterns in the different provinces.

Client knowledge of danger signs of pregnancy

Providers are responsible for educating expectant mothers on specific danger signs related to pregnancy for which they should seek immediate help. Table 3.14 provides information on whether interviewed ANC clients were counselled on these danger signs (either during the current or a previous ANC visit), and client knowledge (or recall) of any of the danger signs.

Only slightly more than one-third of interviewed ANC clients said they had been counselled (either during the current or a prior visit) on risk/danger signs of during pregnancy. As expected, providers in maternities seem to have counselled clients on risk/danger signs more often than providers in other types of facility. There is a particular dearth of counselling among NGO facilities and in the North Eastern province (Figure 3.3).

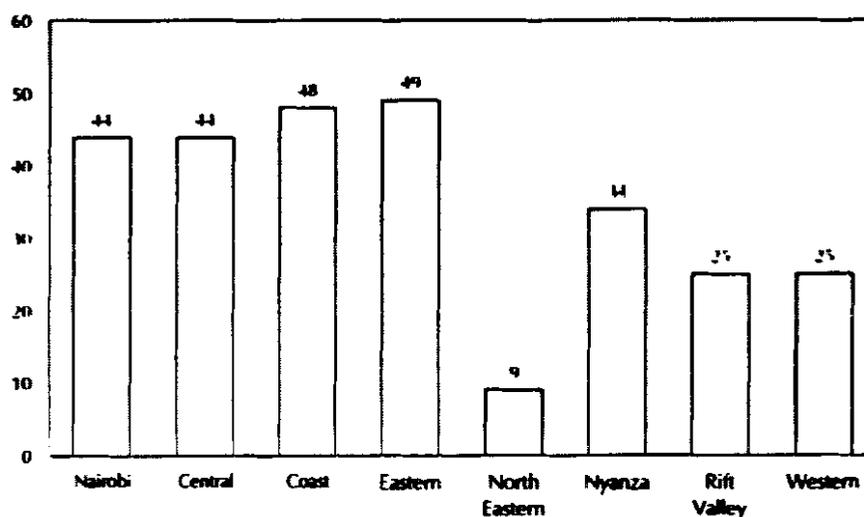
Table 3.14 Reported counselling for complications of pregnancy

Among observed and interviewed ANC clients, the percentage who reported that a provider counselled¹ on risk signs for pregnancy and who spontaneously mentioned the indicated pregnancy risk sign/symptom, Kenya SPA 2004

| Background characteristics | Percentage reporting provider counselled on risk signs for pregnancy | Percentage spontaneously mentioning indicated risk signs/symptoms | | | | | Number of interviewed ANC clients (weighted) |
|-------------------------------------|--|---|-----------|--------------|-----------------------------|----------------------------|--|
| | | Swollen | | | | | |
| | | Bleeding | Fever | face or hand | Tiredness or breathlessness | Headache or blurred vision | |
| Type of facility² | | | | | | | |
| Hospital | 38 | 33 | 10 | 11 | 9 | 13 | 103 |
| Health centre | 33 | 27 | 9 | 11 | 7 | 7 | 380 |
| Maternity | 52 | 28 | 15 | 13 | 7 | 24 | 32 |
| Clinic | 32 | 47 | 17 | 10 | 8 | 13 | 5 |
| Dispensary | 37 | 33 | 12 | 5 | 12 | 13 | 433 |
| Managing authority | | | | | | | |
| Government | 35 | 31 | 11 | 6 | 13 | 11 | 616 |
| NGO | 8 | 26 | 7 | 7 | 6 | 7 | 28 |
| Private for profit | 47 | 29 | 7 | 17 | 3 | 16 | 103 |
| FBO | 39 | 30 | 12 | 11 | 3 | 10 | 204 |
| Province | | | | | | | |
| Nairobi | 44 | 37 | 4 | 18 | 5 | 18 | 91 |
| Central | 44 | 34 | 8 | 1 | 9 | 3 | 51 |
| Coast | 48 | 54 | 14 | 13 | 16 | 14 | 100 |
| Eastern | 49 | 33 | 22 | 6 | 8 | 14 | 167 |
| North Eastern | 9 | 0 | 9 | 0 | 9 | 0 | 5 |
| Nyanza | 34 | 28 | 18 | 7 | 10 | 13 | 159 |
| Rift Valley | 25 | 25 | 3 | 10 | 11 | 9 | 289 |
| Western | 25 | 15 | 4 | 3 | 3 | 3 | 89 |
| Total | 36 | 31 | 11 | 8 | 10 | 11 | 952 |

¹ Either during this or previous visit
² Stand-alone VCT facilities not eligible

Figure 3.3 Percentage of ANC Clients Reporting Provider Counselling for Complications of Pregnancy, by Province (N=952)



When asking for spontaneous responses, much lower percentages are obtained: only 31 percent named bleeding, and only around one in ten mentioned fever, headache/blurred vision or tiredness/breathlessness. Swollen face or hands was mentioned by even fewer respondents (8 percent). Bleeding is mentioned more in the Eastern province, while clients from Nairobi can mention more the swollen face or hands sign and those attending maternities are more able to mention headache or blurred vision as a risk symptom.

3.6.2 Normal deliveries

Partograph availability and use by providers

The partograph helps providers to identify prolonged labour and to determine when to take necessary action. Although recommended by WHO partographs are still not widely used in most developing countries. Table 3.15 shows information related to partographs, for facilities providing delivery services.

Almost 4 in 10 eligible facilities surveyed offer delivery services (Figure 3.4). Of these, 39 percent have partographs. Hospitals (79 percent) and government facilities (44 percent) are more likely to have them. Dispensaries, NGO facilities and facilities in Rift Valley are least likely to have partographs.

On actual use of a partograph, only 38 percent of interviewed providers offering delivery services had used the partograph within 1 month of the interview. Eleven percent had never used one to monitor labour (see Table 3.15).

Table 3.15 Use of partographs for delivery services

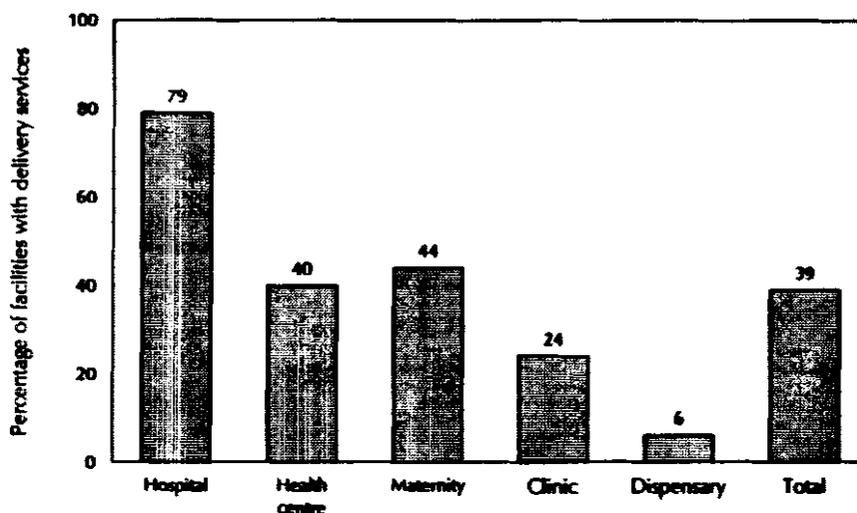
Percentage of facilities offering delivery services, among these, the percentage with partographs, and percentage of interviewed delivery service providers reporting the indicated use of partographs, Kenya SPA 2004

| Background characteristics | Percentage of facilities with delivery services | Number of facilities (weighted) | Percentage of facilities with delivery services that have partographs | Number of facilities with delivery services (weighted) | Percentage of delivery service providers reporting using a partograph | | | | | Number of delivery services providers (weighted) |
|-------------------------------------|---|---------------------------------|---|--|---|----------------------------------|------------------------|-----------|--------------------|--|
| | | | | | Within past one month | More than month ago ¹ | More than 6 months ago | Never | Don't know/missing | |
| Type of facility² | | | | | | | | | | |
| Hospital | 94 | 28 | 79 | 27 | 44 | 9 | 33 | 6 | 8 | 345 |
| Health centre | 64 | 125 | 40 | 80 | 34 | 11 | 28 | 15 | 12 | 243 |
| Maternity | 87 | 20 | 44 | 18 | 54 | 12 | 25 | 8 | 1 | 114 |
| Clinic | 14 | 8 | 24 | 1 | 35 | 3 | 32 | 29 | 2 | 2 |
| Dispensary | 15 | 249 | 6 | 38 | 8 | 3 | 60 | 21 | 8 | 84 |
| Managing authority | | | | | | | | | | |
| Government | 35 | 245 | 44 | 86 | 34 | 12 | 42 | 10 | 2 | 427 |
| NGO | 87 | 16 | 17 | 14 | 26 | 5 | 58 | 11 | 0 | 22 |
| Private for profit | 48 | 61 | 39 | 29 | 59 | 4 | 14 | 7 | 15 | 171 |
| FBO | 33 | 109 | 35 | 35 | 31 | 9 | 27 | 16 | 17 | 168 |
| Province | | | | | | | | | | |
| Nairobi | 30 | 37 | 82 | 11 | 36 | 14 | 36 | 12 | 2 | 133 |
| Central | 18 | 50 | 85 | 9 | 69 | 7 | 22 | 2 | 0 | 93 |
| Coast | 27 | 49 | 52 | 13 | 38 | 6 | 10 | 13 | 33 | 77 |
| Eastern | 32 | 81 | 45 | 26 | 36 | 9 | 42 | 12 | 1 | 87 |
| North Eastern | 35 | 8 | 23 | 3 | 49 | 4 | 42 | 4 | 0 | 5 |
| Nyanza | 49 | 54 | 28 | 26 | 39 | 3 | 31 | 10 | 17 | 149 |
| Rift Valley | 45 | 124 | 18 | 55 | 30 | 13 | 45 | 6 | 6 | 156 |
| Western | 69 | 29 | 51 | 20 | 28 | 10 | 36 | 24 | 2 | 88 |
| Total | 38 | 430 | 39 | 164 | 38 | 9 | 33 | 11 | 8 | 788 |

¹ More than a month ago but within past 6 months

² Stand-alone VCT facilities not eligible

Figure 3.4 Availability of Partographs among Facilities With Delivery Services (N=164)



Among providers who had used the partograph within one month of the interview, the majority were in maternities, private for-profit facilities, and in the Central province. Providers who had never used the partograph were most often in clinics, FBO facilities and in the Western province.

Monitoring of normal deliveries

Monitoring all deliveries helps to ensure the well-being of both mother and foetus and prompt action in case of complications. Table 3.16 provides information on critical practices for monitoring normal deliveries conducted in facilities surveyed.⁴ The recommended standard/basic practice is to monitor the foetal heart rate, maternal pulse rate and uterine contractions every 30 minutes, and measure/check maternal blood pressure every 4 hours.

Information gathered from clients' delivery records or charts showed that foetal heart rate and uterine contractions were monitored/checked every 30 minutes for only one in five cases, while measuring blood pressure every 4 hours was documented as done in only 14 percent of cases. Pulse rate every 30 minutes was documented even less often (8 percent). All 4 critical practices were documented for only 5 percent of all reviewed normal delivery records. Nyanza province had the highest proportion of deliveries documented to have carried out all 4 critical practices (13 percent).

Only hospitals and maternities had recorded doing all four critical practices in their delivery notes. 17 percent and 10 percent, respectively. According to documentation, dispensaries, FBO and North Eastern, Rift Valley and Western provinces which perform relatively fewer standard delivery practices.

⁴ These data came from either partographs or other records.



| Table 3.16 Documentation of critical practices for monitoring normal deliveries | | | | | | |
|--|--|---|---------------------------------------|---------------------------------|-----------------------------|---|
| Percentage of recent normal deliveries where the delivery client records documented items for monitoring normal deliveries, Kenya SPA 2004 | | | | | | |
| Background characteristics | Percentage of reviewed records with the indicated items documented | | | | | Number of normal delivery records reviewed (weighted) |
| | FHR ¹ every 30 minutes | Assessment of contractions every 30 minutes | Blood pressure measured every 4 hours | Pulse measured every 30 minutes | All critical practices done | |
| Type of facility² | | | | | | |
| Hospital | 45 | 45 | 39 | 22 | 17 | 129 |
| Health centre | 15 | 13 | 6 | 3 | 0 | 330 |
| Maternity | 31 | 28 | 29 | 18 | 10 | 74 |
| Clinic | 10 | 22 | 4 | 0 | 0 | 4 |
| Dispensary | 2 | 2 | 2 | 0 | 0 | 132 |
| Managing authority | | | | | | |
| Government | 13 | 15 | 10 | 4 | 2 | 350 |
| NGO | 26 | 32 | 9 | 19 | 8 | 29 |
| Private for profit | 41 | 29 | 26 | 17 | 12 | 134 |
| FBO | 15 | 17 | 13 | 5 | 4 | 157 |
| Province | | | | | | |
| Nairobi | 46 | 42 | 25 | 22 | 9 | 55 |
| Central | 16 | 22 | 31 | 9 | 4 | 43 |
| Coast | 33 | 20 | 17 | 6 | 5 | 65 |
| Eastern | 21 | 22 | 15 | 4 | 3 | 84 |
| North Eastern | 13 | 8 | 5 | 4 | 1 | 14 |
| Nyanza | 31 | 32 | 22 | 19 | 13 | 93 |
| Rift Valley | 7 | 6 | 5 | 3 | 2 | 222 |
| Western | 17 | 19 | 9 | 5 | 2 | 93 |
| Total | 20 | 19 | 14 | 8 | 5 | 670 |

¹ Foetal heart rate
² Stand-alone VCT facilities not eligible

3.6.3 Complications of normal deliveries

Provider knowledge of signs of postpartum haemorrhage

The KSPA interviewed the most experienced maternal health provider present the day of the survey where maternal health services were offered, using the appropriate questionnaire to assess their knowledge of signs and treatment for postpartum haemorrhage. Interviewed providers were expected to spontaneously name 4 categories of signs and symptoms and 4 interventions.

Only 6 percent of interviewed midwives spontaneously named all 4 categories of haemorrhage signs and symptoms (Table 3.17). As expected, midwives in maternities are most knowledgeable, followed by clinics and private for-profit facilities. A higher proportion of midwives in Nairobi province was much better informed than in other provinces. The most frequently named category was signs of shock (60 percent) and only one in four midwives named retained products or placenta as a sign of postpartum haemorrhage. The North Eastern province does less well on a couple of signs/symptoms.

Table 3.17 Knowledge of signs of postpartum haemorrhage and of immediate interventions

Percentage of interviewed midwives who spontaneously described the indicated signs of postpartum haemorrhage and interventions for postpartum haemorrhage, Kenya SPA 2004

| Background characteristics | Percentage mentioning indicated signs of postpartum haemorrhage | | | | | Percentage mentioning indicated interventions for postpartum haemorrhage ¹ | | | | | Number of interviewed midwives (weighted) |
|-------------------------------------|---|-----------------------------|-----------------------------|----------------------------|---------------------------|---|-----------------------|-----------------------------------|--------------------------|------------------------|---|
| | Uncontracted uterus | Signs of shock ² | Amount of external bleeding | Retained products/placenta | All four signs & symptoms | Massage fundus | Empty woman's bladder | Ergometrine IM or IV ³ | Start intravenous fluids | All four interventions | |
| Type of facility⁴ | | | | | | | | | | | |
| Hospital | 64 | 72 | 61 | 44 | 12 | 73 | 50 | 79 | 66 | 24 | 27 |
| Health centre | 55 | 67 | 43 | 41 | 2 | 72 | 43 | 74 | 60 | 17 | 86 |
| Maternity | 65 | 66 | 66 | 53 | 23 | 69 | 40 | 79 | 57 | 20 | 18 |
| Clinic | 75 | 45 | 53 | 61 | 16 | 62 | 68 | 81 | 31 | 15 | 2 |
| Dispensary | 48 | 45 | 60 | 35 | 4 | 67 | 49 | 76 | 10 | 0 | 65 |
| Managing authority | | | | | | | | | | | |
| Government | 55 | 70 | 48 | 37 | 5 | 77 | 45 | 76 | 44 | 14 | 115 |
| NGO | 41 | 28 | 62 | 4 | 1 | 38 | 58 | 99 | 5 | 0 | 14 |
| Private for profit | 49 | 64 | 65 | 46 | 13 | 69 | 34 | 74 | 70 | 18 | 30 |
| FBO | 65 | 40 | 55 | 60 | 3 | 62 | 52 | 70 | 36 | 7 | 40 |
| Province | | | | | | | | | | | |
| Nairobi | 94 | 60 | 49 | 76 | 31 | 60 | 64 | 99 | 79 | 40 | 11 |
| Central | 81 | 88 | 36 | 79 | 16 | 94 | 45 | 87 | 35 | 23 | 9 |
| Coast | 73 | 44 | 46 | 46 | 3 | 60 | 31 | 50 | 42 | 4 | 25 |
| Eastern | 60 | 60 | 59 | 32 | 3 | 93 | 56 | 86 | 60 | 15 | 35 |
| North Eastern | 26 | 56 | 28 | 44 | 0 | 35 | 0 | 44 | 50 | 0 | 3 |
| Nyanza | 34 | 56 | 43 | 42 | 3 | 35 | 38 | 82 | 21 | 1 | 35 |
| Rift Valley | 41 | 57 | 57 | 25 | 2 | 78 | 51 | 69 | 40 | 14 | 56 |
| Western | 68 | 79 | 68 | 51 | 11 | 80 | 44 | 82 | 50 | 15 | 25 |
| Total | 55 | 60 | 53 | 41 | 6 | 70 | 46 | 76 | 44 | 12 | 198 |

¹ Postpartum haemorrhage resulting from an atonic or uncontracted uterus

² Dizziness or low blood pressure

³ Intramuscularly or intravenously

⁴ Stand-alone VCT facilities not eligible

Interventions for postpartum haemorrhage

Regarding interventions for postpartum haemorrhage, 70 and 76 percent of midwives, respectively, mentioned massaging the uterus and giving an intramuscular (IM) or intravenous (IV) injection of Ergometrine. Other interventions, such as emptying the patient's urinary bladder (46 percent) and giving intravenous fluids (44 percent) were mentioned less frequently. In particular, no midwife in the North Eastern province and only a third from the Coast mentioned emptying the bladder. Similarly, only 5 percent of respondents from NGOs mentioned the use of IV fluids for this emergency. In all, only 12 percent of all interviewed midwives were able to spontaneously name all 4 expected interventions for postpartum haemorrhage. Relatively more midwives in hospitals than in other types of facility were able to name all expected interventions, and more midwives in Nairobi than in other provinces were also able to name all four interventions compared to midwives in other provinces. No midwives interviewed in dispensaries, in NGO facilities and the North Eastern province were able to mention all four interventions.

Signal functions for emergency obstetric care

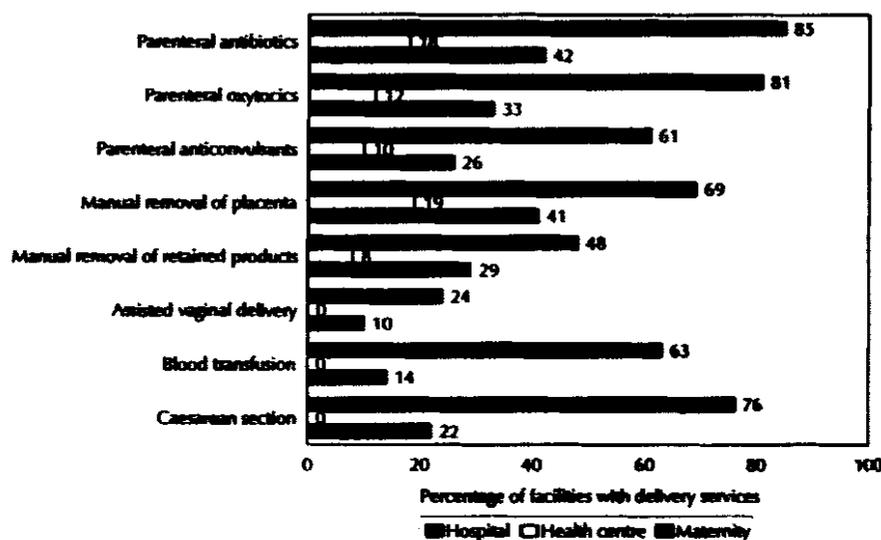
As part of the Averting Maternal Death and Disability (AMDD) project and in an effort to find intermediate indicators to track progress in the area of facility preparedness for maternal complications, "signal functions" have been developed, indicating the capacity of facilities to offer specialised services for emergency obstetric care. Table 3.18 shows the percentage of facilities that reported having carried out the indicated procedures/interventions (the "signal functions") in the last 3 months.⁵

| Background characteristics | Percentage | | | | | | | | Number of facilities (weighted) |
|-------------------------------------|------------------------|----------------------|--------------------------------------|----------------------------|-------------------------------------|---------------------------|-------------------|-------------------|---------------------------------|
| | Parenteral antibiotics | Parenteral oxytocics | Parenteral anticonvulsants/sedatives | Manual removal of placenta | Manual removal of retained products | Assisted vaginal delivery | Blood transfusion | Caesarean section | |
| Type of facility¹ | | | | | | | | | |
| Hospital | 85 | 81 | 61 | 69 | 48 | 24 | 63 | 76 | 27 |
| Health centre | 18 | 12 | 10 | 19 | 8 | 0 | 0 | 0 | 80 |
| Maternity | 42 | 33 | 26 | 41 | 29 | 10 | 14 | 22 | 18 |
| Clinic | 28 | 24 | 8 | 0 | 0 | 8 | 0 | 8 | 1 |
| Dispensary | 17 | 6 | 6 | 11 | 0 | 0 | 0 | 0 | 38 |
| Managing authority | | | | | | | | | |
| Government | 22 | 16 | 17 | 29 | 14 | 1 | 9 | 9 | 86 |
| NGO | 31 | 28 | 6 | 28 | 6 | 4 | 5 | 4 | 14 |
| Private for profit | 45 | 38 | 25 | 36 | 25 | 16 | 18 | 31 | 29 |
| FBO | 43 | 31 | 25 | 17 | 12 | 6 | 16 | 19 | 35 |
| Province | | | | | | | | | |
| Nairobi | 25 | 25 | 20 | 20 | 13 | 9 | 15 | 23 | 11 |
| Central | 41 | 45 | 29 | 42 | 25 | 3 | 30 | 41 | 9 |
| Coast | 51 | 53 | 42 | 41 | 63 | 6 | 17 | 20 | 13 |
| Eastern | 14 | 14 | 9 | 27 | 7 | 5 | 11 | 12 | 26 |
| North Eastern | 38 | 23 | 35 | 35 | 16 | 13 | 23 | 13 | 3 |
| Nyanza | 36 | 11 | 10 | 17 | 17 | 6 | 12 | 11 | 26 |
| Rift Valley | 25 | 19 | 10 | 28 | 5 | 5 | 8 | 14 | 55 |
| Western | 50 | 39 | 48 | 28 | 16 | 1 | 8 | 7 | 20 |
| Total | 31 | 24 | 19 | 27 | 15 | 5 | 12 | 15 | 164 |

Almost one in three facilities report having administered parenteral antibiotics, followed by manual removal of the placenta (27 percent) and the administration of parenteral oxytocics. A second tier of functions are less frequently performed by facilities, such as using parenteral anticonvulsants/sedatives (19 percent), and performing manual removal of the placenta, caesarean sections and blood transfusions (between 12 and 15 percent). The one function least performed is assisted vaginal delivery (e.g., forceps, vacuum extractor), perhaps because of requiring specialised equipment and intensive training (Figure 3.5).

⁵ The capacity to perform the first six functions denotes basic emergency obstetric care. The addition of the next two functions makes the facility capable of providing comprehensive emergency obstetric care.

Figure 3.5 Performance of Signal Functions for Emergency Obstetric Care at Least Once during Past Three Months in Facilities With Delivery Services



Among differentials it is clear health centres, clinics and dispensaries are least likely to provide critical emergency obstetric services. Additionally, the Eastern province is less able to administer parenteral antibiotics and oxytocics. Regarding IM/IV oxytocics, Nyanza province facilities are least likely to provide them. Use of parenteral anticonvulsants/sedatives is low in NGO facilities and in Eastern, Nyanza and Rift Valley provinces; however, it is high in Western and Coast provinces. Generally, other facilities rarely offer the remaining services, except for hospitals and maternities (to some extent). It is worth noting that fewer than half of all maternities examined, that specialise in delivery services, have provided the assessed procedures/interventions in the last 3 months. Particular mention should be made of life-saving procedures such as manual removal of placenta (41 percent), manual removal of retained products (29 percent), and assisted vaginal delivery (10 percent).⁶

3.7 STI Services

Sexually transmitted infections (STIs) are a major public health problem. STIs can cause infertility and increase the risk of transmission of human immunodeficiency virus (HIV). There is a certain degree of stigma associated with STIs, making it difficult for clients with symptoms to seek care. During any STI consultation providers are expected to ask clients about the 5 history elements noted in Table 3.19.

Providers asked all STI clients whose consultations were observed about their presenting complaints/symptoms. In 86 percent of cases, the provider asked about the duration of the symptoms, and in 78 percent the client's history of recent sexual contacts and his/her current relationship status. In 73 percent of cases, providers asked about the occurrence of similar symptoms in their sexual partners. Overall, all elements of the history were assessed in 53 percent of observed consultations.

⁶ This finding should be interpreted with caution because some maternities may, in fact, be referring complicated cases to higher-level facilities, and thus handle fewer women with serious complications.

⁷ Clients are asked whether or not they are in a monogamous relationship and whether their partners are in a non-monogamous relationship.

The most comprehensive history was elicited by providers in hospitals and dispensaries, and in facilities in the Western province (Figure 3.6). Other than enquiring about the presenting symptom and its duration, providers in maternities did very little in terms of enquiring about the other history elements.

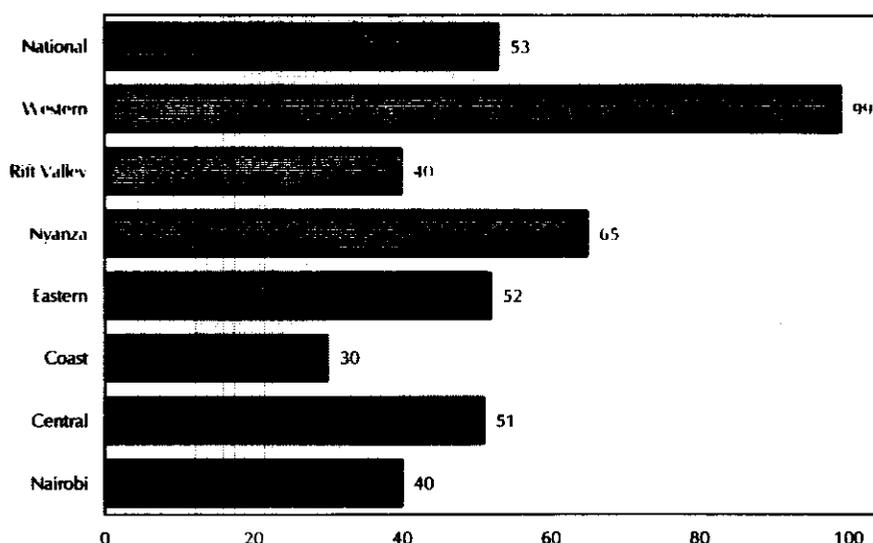
Table 3.19 Assessment of history of clients with symptoms of sexually transmitted infections

Among observed clients with symptoms of sexually transmitted infections (STIs), percentage where the indicated information was elicited, Kenya SPA 2004

| Background characteristics | Percentage where provider enquired about | | | | | | Number of observed STI client consultations (weighted) |
|-------------------------------------|--|--|---|-----------------------------|---|----------------------------------|--|
| | What symptoms the client has | How long the client has had the symptoms | Client's recent history of sexual contact | Symptoms in sexual partners | Client current relationship status ¹ | All elements of history assessed | |
| Type of facility² | | | | | | | |
| Hospital | 99 | 93 | 80 | 75 | 76 | 59 | 18 |
| Health centre | 100 | 88 | 75 | 82 | 91 | 51 | 52 |
| Maternity | 100 | 100 | 18 | 18 | 66 | 18 | 2 |
| Clinic | 100 | 100 | 64 | 50 | 58 | 40 | 2 |
| Dispensary | 100 | 81 | 84 | 65 | 66 | 57 | 43 |
| Managing authority | | | | | | | |
| Government | 100 | 86 | 77 | 75 | 86 | 53 | 83 |
| NGO | 100 | 100 | 100 | 100 | 100 | 100 | 0 |
| Private for profit | 100 | 100 | 62 | 55 | 77 | 55 | 6 |
| FBO | 100 | 84 | 85 | 70 | 55 | 55 | 26 |
| Province | | | | | | | |
| Nairobi | 100 | 77 | 87 | 76 | 68 | 40 | 28 |
| Central | 100 | 100 | 61 | 55 | 51 | 51 | 2 |
| Coast | 100 | 100 | 62 | 32 | 60 | 30 | 9 |
| Eastern | 100 | 54 | 98 | 52 | 100 | 52 | 9 |
| Nyanza | 100 | 78 | 93 | 70 | 71 | 65 | 22 |
| Rift Valley | 99 | 98 | 45 | 79 | 83 | 40 | 29 |
| Western | 100 | 100 | 99 | 99 | 100 | 99 | 16 |
| Total | 100 | 86 | 78 | 73 | 78 | 53 | 116 |

¹ Monogamous, multiple partners, nonmonogamous partner
² No observed clients in stand-alone VCT facilities

Figure 3.6 Percentage of Observed STI Client Consultations Where Provider Assessed All Elements of History for STI, by Province (N=116)



Promoting condom use among STI clients

Condoms can prevent the transmission of STIs (including HIV). Table 3.20 provides information on condom education provided to STI clients.

Providers discussed the role of condoms in preventing STI/HIV/AIDS in only 55 percent of observed consultations. Figures drop considerably thereafter: a low 21 percent of providers offers condoms to clients and meagre proportions instruct the client how to use them (17 percent), or demonstrate their proper use (7 percent). All four elements of promoting condom use occurred in only 7 percent of observed STI consultations.

Providers in maternities (18 percent) and in the Eastern (6 percent) and even in the Nairobi province (19 percent) hardly discuss condoms with clients. Hitherto, very few places commit to providing the client with instructions and condoms for their use, except in hospitals and health centres, at government facilities and in facilities in the Nyanza and Rift Valley provinces. This indicates the need to enhance STI program efforts in primary centres, nongovernmental facilities and in selected provinces of Kenya.

Table 3.20 Client education on condom use for prevention of sexually transmitted infections

Among observed clients with symptoms of sexually transmitted infections (STIs), percentage where the providers gave the indicated education related to use of condoms, Kenya SPA 2004

| Background characteristics | Percentage where provider | | | | | Number of observed STI client consultations (weighted) |
|-------------------------------------|---|---|------------------------------------|---------------------------|--|--|
| | Discussed role of condoms in preventing STIs including HIV/AIDS | Instructed the client how to use the condom | Demonstrated how to use the condom | Offered condoms to client | All four elements of promotion of condom use for prevention of STIs occurred | |
| Type of facility¹ | | | | | | |
| Hospital | 69 | 44 | 12 | 28 | 9 | 18 |
| Health centre | 68 | 15 | 13 | 38 | 13 | 52 |
| Maternity | 18 | 0 | 0 | 0 | 0 | 2 |
| Clinic | 39 | 0 | 0 | 0 | 0 | 2 |
| Dispensary | 35 | 10 | 0 | 0 | 0 | 43 |
| Managing authority | | | | | | |
| Government | 61 | 23 | 10 | 29 | 10 | 83 |
| NCO | 0 | 0 | 0 | 0 | 0 | 0 |
| Private for profit | 57 | 3 | 0 | 0 | 0 | 6 |
| FBO | 35 | 0 | 0 | 0 | 0 | 26 |
| Province | | | | | | |
| Nairobi | 19 | 1 | 0 | 0 | 0 | 28 |
| Central | 66 | 29 | 0 | 18 | 0 | 2 |
| Coast | 30 | 0 | 0 | 0 | 0 | 9 |
| Eastern | 6 | 2 | 0 | 1 | 0 | 9 |
| Nyanza | 92 | 35 | 2 | 23 | 1 | 22 |
| Rift Valley | 79 | 28 | 23 | 59 | 23 | 29 |
| Western | 60 | 18 | 8 | 11 | 8 | 16 |
| Total | 55 | 17 | 7 | 21 | 7 | 116 |

¹ No observed clients in stand-alone VCT facilities

Client perceptions on condom use

Reasons for not using condoms include: embarrassment about getting condoms and discussing its use with partner, reduction in sexual satisfaction in partner and in self and difficult to dispose of.

Among interviewed STI clients, only 38 percent had ever used a condom. Use seems to be much higher among clinic users, and clients in the Central and Eastern provinces. Twenty-two and 18

percent cited embarrassment as a reason preventing people from obtaining them or discussing them with partners. Embarrassment seemed an important reason for clients in the Eastern region, who otherwise were not concerned about other potential problems of condom use. Eighteen percent said condoms reduce partners' satisfaction. Lower percentages (13 and 7 percent) of STI clients said condoms reduce their own sexual satisfaction and are difficult to dispose of, as reasons why some people do not use them (Table 3.21).

Table 3.21 Client perception of major reasons people may not use condoms

Among observed and interviewed clients with symptoms of sexually transmitted infections (STIs), percentage reporting they think the indicated reason may contribute in a large measure to why some people may not use condoms and the percentage who reported they have ever used condoms, Kenya SPA 2004

| Background characteristics | Percentage | | | | | Ever used condoms | Number of interviewed STI clients (weighted) |
|-------------------------------------|--------------------------------|---------------------------------|--|---------------------------------|--------------------------------|-------------------|--|
| | Embarrassing to obtain condoms | Difficult to dispose of condoms | Embarrassing to discuss condoms with partner | Reduces own sexual satisfaction | Reduces partner's satisfaction | | |
| Type of facility¹ | | | | | | | |
| Hospital | 26 | 11 | 22 | 19 | 26 | 58 | 17 |
| Health centre | 17 | 13 | 13 | 13 | 29 | 38 | 52 |
| Maternity | 0 | 0 | 0 | 35 | 35 | 35 | 1 |
| Clinic | 20 | 0 | 9 | 11 | 41 | 70 | 1 |
| Dispensary | 28 | 0 | 25 | 10 | 0 | 27 | 43 |
| Managing authority | | | | | | | |
| Government | 19 | 10 | 25 | 17 | 23 | 45 | 83 |
| NGO | 0 | 0 | 0 | 0 | 50 | 100 | 0 |
| Private for profit | 3 | 3 | 3 | 8 | 11 | 23 | 5 |
| FBO | 36 | 0 | 1 | 2 | 3 | 16 | 26 |
| Province | | | | | | | |
| Nairobi | 13 | 1 | 0 | 1 | 7 | 33 | 28 |
| Central | 44 | 28 | 5 | 5 | 25 | 95 | 2 |
| Coast | 2 | 0 | 2 | 2 | 2 | 34 | 9 |
| Eastern | 49 | 1 | 49 | 4 | 7 | 93 | 9 |
| Nyanza | 26 | 1 | 26 | 22 | 20 | 15 | 22 |
| Rift Valley | 28 | 25 | 27 | 15 | 27 | 44 | 28 |
| Western | 19 | 2 | 19 | 31 | 32 | 29 | 16 |
| Total | 22 | 7 | 18 | 13 | 18 | 38 | 114 |

¹ Stand-alone VCT facilities not eligible

Client perception of services

STI clients were asked to comment on specific problems with the services they received. Few major problems were reported, except for the long waiting time (26 percent), especially among half of Nairobi clients (Table 3.22).

Table 3.22. Client feedback on services

Among observed and interviewed clients receiving services for sexually transmitted infections (STIs), percent who reported they felt the indicated element was a large problem for them, in relation to the services they received the day of the survey. Kenya SPA 2004

| Background characteristics | Percentage | | | | | | | | Number of interviewed STI clients (weighted) |
|-------------------------------------|-------------------|---|--------------------------------------|---|------------------------|--------------------------|--|-------------------------|--|
| | Long waiting time | Lack of ability to discuss concerns with provider | Not enough explanation from provider | Quality of examination and/or treatment | Lack of visual privacy | Lack of auditory privacy | Lack of availability of method/medicines | Poorly treated by staff | |
| Type of facility¹ | | | | | | | | | |
| Hospital | 25 | 1 | 2 | 1 | 1 | 0 | 9 | 2 | 17 |
| Health centre | 23 | 0 | 3 | 6 | 6 | 9 | 3 | 11 | 52 |
| Maternity | 0 | 0 | 35 | 100 | 35 | 35 | 35 | 0 | 1 |
| Clinic | 11 | 11 | 0 | 0 | 0 | 0 | 9 | 9 | 1 |
| Dispensary | 32 | 5 | 5 | 0 | 5 | 5 | 0 | 0 | 43 |
| Managing authority | | | | | | | | | |
| Government | 27 | 3 | 5 | 4 | 7 | 9 | 4 | 7 | 83 |
| NGO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private for profit | 0 | 0 | 8 | 23 | 8 | 8 | 11 | 7 | 5 |
| FBO | 28 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| Province | | | | | | | | | |
| Nairobi | 49 | 1 | 6 | 0 | 11 | 6 | 6 | 0 | 28 |
| Central | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Coast | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 9 |
| Eastern | 48 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 9 |
| Nyanza | 9 | 0 | 1 | 3 | 1 | 0 | 4 | 1 | 22 |
| Rift Valley | 5 | 0 | 0 | 12 | 0 | 12 | 0 | 12 | 28 |
| Western | 32 | 16 | 18 | 3 | 17 | 17 | 7 | 15 | 16 |
| Total | 26 | 2 | 4 | 4 | 5 | 7 | 3 | 5 | 114 |

¹ No observed stand-alone VCT facilities

3.8 Youth-friendly Services

Many youth in need of sexual and reproductive health care are not comfortable accessing existing services because they are not "youth friendly" and may not meet their needs. Coupled with this, providers are often biased, uneasy, or not adequately trained to serve sexually active youth. There has been a push in recent time to sensitise all staff at health care facilities on the provision of "youth-friendly" services (YFS), and in making the young people feel welcome.

Table 3.23 provides information on the availability of youth-friendly services at specific service sites or anywhere in health facilities. The components of youth-friendly services assessed include, but are not limited to, the provision of services in separate rooms, reduced user fees, and the availability of youth-specific educational materials on different topics.

The proportion of facilities with youth-friendly services in any service site is, unfortunately, very low (12 percent). However stand-alone VCT sites, NGO facilities, and facilities in Nairobi and Western provinces are more likely to provide youth-friendly services (Figure 3.7).

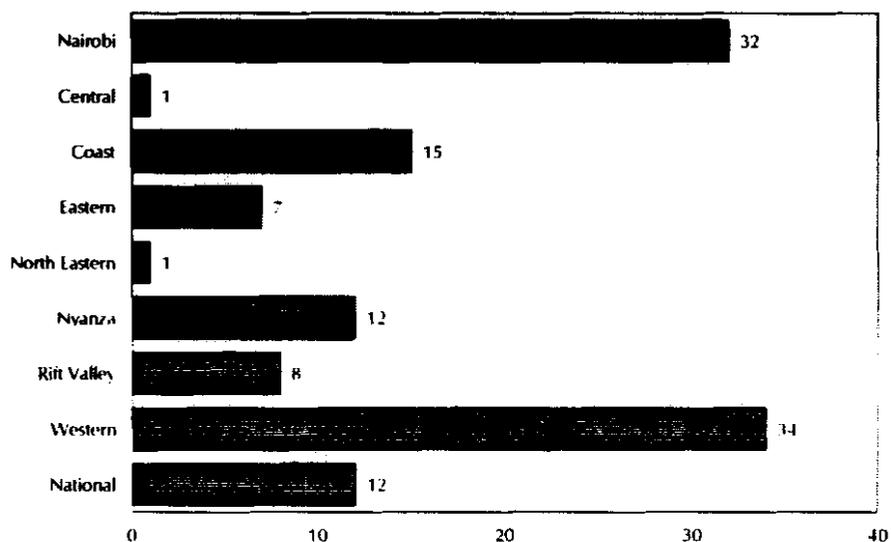
Table 3.23 Youth-friendly services

Percentage of all facilities which have youth-friendly services for the indicated service or anywhere in facility. Kenya SPA 2004

| Background characteristics | Percent with youth-friendly services for | | | | | Any provided service | Number of facilities (weighted) |
|----------------------------|--|----------|----------|-----------|----------|----------------------|---------------------------------|
| | Family planning | ANC | STI | VCT | PMTCT | | |
| Type of facility | | | | | | | |
| Hospital | 5 | 1 | 4 | 7 | 2 | 22 | 28 |
| Health centre | 5 | 3 | 6 | 10 | 6 | 18 | 125 |
| Maternity | 10 | 6 | 11 | 20 | 0 | 18 | 20 |
| Clinic | 2 | 4 | 2 | 12 | 0 | 15 | 8 |
| Dispensary | na | na | na | 14 | 0 | 7 | 249 |
| Stand-alone VCT | na | na | na | 21 | 0 | 41 | 10 |
| Managing authority | | | | | | | |
| Government | 4 | 1 | 4 | 20 | 5 | 14 | 246 |
| NGO | 2 | 1 | 4 | 14 | 0 | 24 | 21 |
| Private for profit | 3 | 9 | 2 | 6 | 2 | 13 | 63 |
| Faith-based organisation | | | | 2 | 0 | 5 | 110 |
| Province | | | | | | | |
| Nairobi | 13 | 0 | 2 | 11 | 0 | 32 | 41 |
| Central | 0 | 1 | 1 | 0 | 0 | 1 | 50 |
| Coast | 1 | 8 | 7 | 18 | 15 | 15 | 49 |
| Eastern | 0 | 0 | 0 | 2 | 0 | 7 | 83 |
| North Eastern | | | | 9 | 0 | 1 | 8 |
| Nyanza | 8 | 1 | 9 | 14 | 0 | 12 | 54 |
| Rift Valley | 1 | 0 | 0 | 23 | 2 | 8 | 126 |
| Western | 5 | 5 | 4 | 12 | 0 | 34 | 29 |
| Total | 3 | 2 | 3 | 12 | 3 | 12 | 440 |

na = Not applicable

Figure 3.7 Percentage of Facilities with Youth-Friendly Services, by Province (N=440)



3.9 HIV/AIDS Services

Given the spread of HIV/AIDS across the entire African continent, several initiatives have been implemented to prevent further HIV infection and to treat the affected individuals. In terms of the facility surveys, President Bush's Emergency Plan for AIDS Relief supported the collection of information on various aspects of facilities' preparedness to provide quality HIV/AIDS services to the people of Kenya. Some of the initial findings are presented in Tables 3.24 through 3.26.

3.9.1 Availability of selected HIV/AIDS services

The KSPA assessed the availability of the following HIV/AIDS services in facilities: voluntary counselling and testing (VCT), prevention of mother-to-child transmission (PMTCT), antiretroviral therapy (ART), and postexposure prophylaxis (PEP) for health workers. Table 3.24 provides detailed information.

Table 3.24 Availability of HIV/AIDS services

Percentage of facilities offering the indicated HIV/AIDS-related services, Kenya SPA 2004

| Background characteristics | Percentage | | | | | | | | Total | Number of facilities (weighted) |
|----------------------------|--|--|---------------------------------------|-----------|----------|--|---------------|-----------|------------|---------------------------------|
| | VCT | | | PMTCT | ART | PEP ^a | | Total | | |
| | Counselling services at least one day a week | Testing services at least one day a week | Both services at least one day a week | | | Service at another facility ^b | Not available | | | |
| Type of facility | | | | | | | | | | |
| Hospital (all types) | 89 | 91 | 89 | 74 | 52 | 39 | 7 | 54 | 100 | 28 |
| Health centre | 47 | 46 | 46 | 36 | 12 | 4 | 8 | 88 | 100 | 125 |
| Maternity | 50 | 46 | 45 | 35 | 6 | 0 | 4 | 96 | 100 | 20 |
| Clinic | 36 | 36 | 36 | 16 | 6 | 7 | 4 | 89 | 100 | 8 |
| Dispensary | 21 | 22 | 21 | 12 | 0 | 0 | 9 | 91 | 100 | 249 |
| Stand-alone VCT | 100 | 100 | 100 | 6 | 6 | 6 | 55 | 39 | 100 | 10 |
| Managing authority | | | | | | | | | | |
| Government | 31 | 32 | 31 | 24 | 5 | 1 | 3 | 96 | 100 | 246 |
| NGO | 47 | 47 | 47 | 28 | 21 | 18 | 19 | 63 | 100 | 21 |
| Private (for profit) | 50 | 50 | 48 | 34 | 15 | 7 | 30 | 63 | 100 | 63 |
| Faith-based organisation | 36 | 35 | 35 | 17 | 6 | 6 | 11 | 84 | 100 | 110 |
| Province | | | | | | | | | | |
| Nairobi | 73 | 73 | 73 | 55 | 19 | 18 | 27 | 55 | 100 | 41 |
| Central | 30 | 35 | 30 | 14 | 4 | 3 | 5 | 92 | 100 | 50 |
| Coast | 40 | 40 | 40 | 37 | 10 | 2 | 13 | 85 | 100 | 49 |
| Eastern | 38 | 38 | 38 | 24 | 12 | 2 | 12 | 86 | 100 | 83 |
| North Eastern | 12 | 12 | 12 | 7 | 2 | 1 | 2 | 97 | 100 | 8 |
| Nyanza | 19 | 19 | 19 | 15 | 7 | 1 | 2 | 95 | 100 | 24 |
| Rift Valley | 30 | 31 | 30 | 16 | 3 | 1 | 7 | 94 | 100 | 126 |
| Western | 43 | 36 | 36 | 30 | 7 | 1 | 2 | 96 | 100 | 24 |
| Total | 36 | 36 | 35 | 24 | 7 | 4 | 9 | 87 | 100 | 430 |

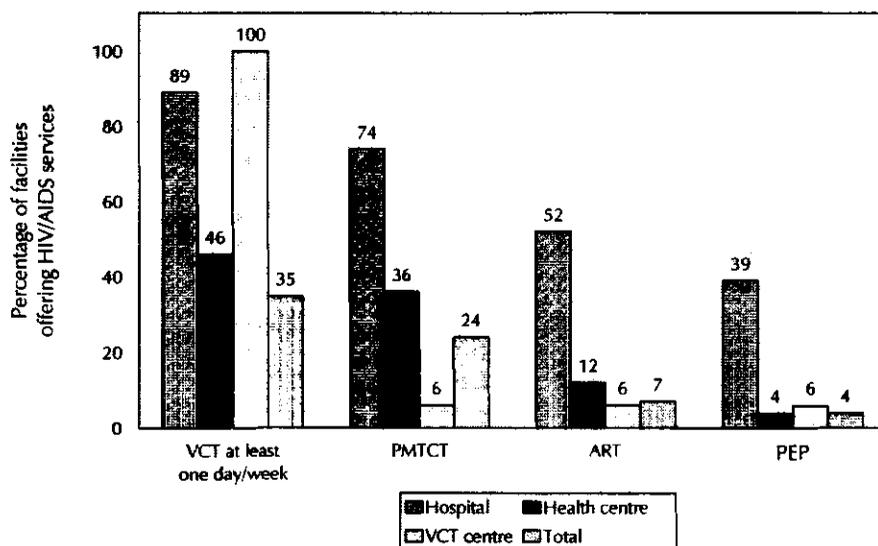
^a PEP is post exposure prophylaxis

^b PEP available to staff of facility anywhere in the facility

^c Staff referred to another facility to receive PEP

Thirty-five percent of facilities offer both counselling and testing services at least one day a week. All stand-alone VCT sites (100 percent) and a majority of hospitals (89 percent) also offer both services. Less than 50 percent of the other facility types offer both services, especially dispensaries, which only offer them in around 20 percent of cases. Also, a smaller proportion of facilities in the North Eastern province (12 percent) offers these services at least one day a week (Figure 3.8).

Figure 3.8 Availability of HIV/AIDS Services (N=440)



Other HIV/AIDS-related services are offered at a smaller percentage of facilities. Thus, while PMTCT services are available at one-fourth of facilities, ART services are available at only 7 percent. Hospitals are more likely than other facilities to offer these two services and facilities in the North Eastern province are least likely to offer them.

Postexposure prophylaxis (PEP) is available in only 13 percent of facilities (4 percent at the facility, and 9 percent referred outside to another facility for PEP). Hospitals have PEP available onsite most often, and stand-alone VCT centres refer their health providers to other facilities for PEP most often. Facilities in Nairobi province and NGO facilities have PEP available the most often, whether onsite or referred outside.

3.9.2 Prevention of mother-to-child transmission (PMTCT) services

The minimum package of prevention of mother-to-child transmission (PMTCT) of HIV services comprises: voluntary counselling and testing (VCT), antiretroviral prophylaxis, infant feeding counselling, and family planning counselling and/or referral.

Overall, about one-fourth of all facilities offer some type of PMTCT services, including three-fourths of hospitals (74 percent) (Table 3.25). Only a third of maternities offer any of the components of PMTCT, and these are offered in even fewer VCT centres and FBO facilities. Not surprisingly, PMTCT services are more likely to be available in Nairobi and less available in Nyanza, Central, North Eastern and Rift Valley provinces (Figure 3.9).

Just over half of all facilities providing some elements of PMTCT offer all four items for the minimum package PMTCT. Hospitals are more likely to provide all 4 items (82 percent) compared with other facility types. A relatively larger proportion of private for-profit facilities and facilities in the Central province offer the minimum package.

Among the 4 components of PMTCT, over 80 percent of facilities offer counselling and testing, infant feeding counselling, and family planning counselling and/or referral. The following sections focus on the 4 individual components of PMTCT.

Table 3.25. Availability of PMTCT and PMTCT+ services (from HIV-SPA).

Percentage of facilities offering PMTCT services, and among facilities offering PMTCT, percentage offering the indicated component of PMTCT services. Kenya SPA 2004

| Background characteristics | Percent of facilities providing any PMTCT services | Number of facilities (weighted) | Percent of facilities offering the indicated component of PMTCT ¹ | | | | | | | Number of facilities offering PMTCT services (weighted) | Number of program sites for PMTCT ⁸ (weighted) |
|----------------------------|--|---------------------------------|--|--|--|--|--|--|-----------------------------------|---|---|
| | | | Counseling and testing services ² (VCT) | ARV prophylaxis to prevent MTCT ³ | Infant feeding counseling ⁴ | Family planning counselling and/or referral ⁵ | All four items for minimum package PMTCT | ARV therapy for HIV+ women and children ⁶ | All items for PMTCT+ ⁷ | | |
| Type of facility | | | | | | | | | | | |
| Hospital (all types) | 74 | 28 | 98 | 89 | 95 | 91 | 82 | 53 | 48 | 21 | 45 |
| Health centre | 36 | 125 | 86 | 57 | 85 | 91 | 57 | 10 | 10 | 45 | 67 |
| Maternity | 35 | 20 | 81 | 70 | 67 | 85 | 53 | 3 | 3 | 7 | 13 |
| Clinic | 16 | 8 | 75 | 51 | 93 | 81 | 39 | 12 | 12 | 1 | 2 |
| Dispensary | 12 | 249 | 82 | 36 | 82 | 81 | 36 | 0 | 0 | 31 | 33 |
| Stand-alone VCT | 6 | 10 | 100 | 67 | 100 | 67 | 67 | 0 | 0 | 1 | 1 |
| Managing authority | | | | | | | | | | | |
| Government | 24 | 246 | 86 | 51 | 79 | 89 | 51 | 15 | 15 | 60 | 94 |
| NGO | 28 | 21 | 40 | 37 | 94 | 94 | 37 | 3 | 3 | 6 | 10 |
| Private (for profit) | 34 | 63 | 94 | 90 | 89 | 96 | 83 | 11 | 11 | 21 | 31 |
| Faith-based organisation | 17 | 110 | 98 | 53 | 98 | 70 | 46 | 24 | 18 | 19 | 26 |
| Province | | | | | | | | | | | |
| Nairobi | 55 | 41 | 100 | 82 | 100 | 79 | 78 | 13 | 13 | 22 | 31 |
| Central | 14 | 50 | 95 | 96 | 100 | 98 | 92 | 25 | 21 | 7 | 11 |
| Coast | 37 | 49 | 78 | 61 | 61 | 97 | 61 | 20 | 20 | 18 | 27 |
| Eastern | 24 | 83 | 100 | 38 | 78 | 80 | 36 | 10 | 10 | 20 | 27 |
| North Eastern | 7 | 8 | 100 | 17 | 100 | 100 | 17 | 17 | 17 | 1 | 1 |
| Nyanza | 15 | 54 | 98 | 47 | 87 | 100 | 43 | 21 | 21 | 8 | 16 |
| Rift Valley | 16 | 126 | 68 | 63 | 99 | 94 | 60 | 15 | 11 | 21 | 32 |
| Western | 30 | 29 | 68 | 11 | 68 | 72 | 11 | 8 | 7 | 9 | 14 |
| Total | 24 | 440 | 87 | 58 | 85 | 88 | 56 | 15 | 14 | 106 | 160 |

¹ Indicated services offered in the facility either as an outpatient or inpatient service

² Group (or individual) pretest information or counselling, or individual posttest counselling, and testing services

³ Antiretroviral prophylaxis for HIV positive women and newborns

⁴ The objective is to assess the mother's personal circumstances in order to help her select the best feeding option for her baby

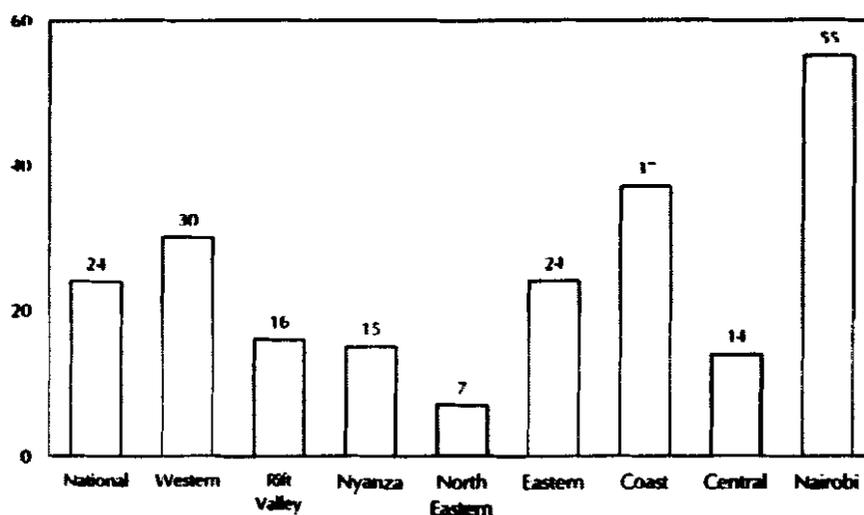
⁵ Counselling and referral on family planning offered to HIV positive women

⁶ Antiretroviral therapy offered to HIV positive women and their eligible HIV positive family members

⁷ PMTCT+ refers to provision of the minimum package of PMTCT services plus ARV therapy (sum of all previous columns)

⁸ There may be several locations within the same facility where PMTCT services are offered. Each such location is defined as a service site

Figure 3.9 Percentage of Facilities Providing Any PMTCT Services, by Province



Voluntary Counselling and Testing

Eighty-seven percent of all facilities providing some elements of PMTCT offer counselling and testing services. All stand-alone VCT centres and 98 percent of hospitals with some aspects of PMTCT service offer counselling and testing. More FBO and private for-profit facilities and fewer NGO facilities or in Rift Valley and Western provinces offer these services, compared with other authorities and provinces.

ARV Prophylaxis

Approximately 60 percent of all facilities providing some elements of PMTCT offer antiretroviral prophylaxis to prevent the transmission of the virus from mother to child. This is the least provided aspect of PMTCT. Hospitals more likely to provide ARVs (89 percent) compared with other facilities. Private for-profit facilities and facilities in Central province are all more likely to provide this service.

Infant feeding counselling

Eighty-five percent of all facilities providing some elements of PMTCT offer infant feeding counselling to HIV-infected mothers. Interestingly, maternities are less likely to offer this service (67 percent) compared with hospitals (95 percent). FBO and NGO facilities offer infant feeding counselling more often and facilities in the Coast and Western provinces least often.

Family planning counselling and/or referral

There are no clear trends regarding the provision of family planning counselling and/or referral for HIV-infected women except that fewer stand-alone VCT centres, FBO facilities, and facilities in the Western province offer this service.

3.9.3 PMTCT plus

PMTCT *plus*, is the provision of the minimum package of services for PMTCT, plus the provision of ARV therapy for HIV-infected mothers and their eligible family members. Only 15 percent of facilities offering any elements of PMTCT services offer ARV therapy for HIV positive women and their eligible family members. This brings the total proportion of facilities offering the full PMTCT *plus* program to only 14 percent. Hospitals are more likely to provide all items for PMTCT *plus* compared with other facilities.

3.9.4 HIV testing services

The availability of counselling and testing services is an integral part of the provision of quality HIV/AIDS-related services. Table 3.26 provides details on the availability of HIV testing services in facilities in Kenya.

Almost 4 in 10 facilities have an HIV testing system, i.e., the facility conducts the test on site, has an affiliated laboratory, or has an agreement with an external site for HIV/AIDS tests. All stand-alone VCT centres and almost all hospitals (98 percent) have an HIV testing system. Relatively fewer dispensaries have a testing system. Private for-profit facilities have a slight edge over other authorities, and Nairobi province has a much larger proportion of facilities with HIV testing systems.

Table 3.26. Systems for testing and for providing results of HIV tests

Percentage of facilities with an HIV testing system and, among these, the percentage using the indicated system and with the indicated documents. Kenya SPA 2004

| Background characteristics | Per-centage with HIV testing system ¹ | Number of facilities (weighted) | Facilities with the means for providing HIV test | | | | Percent of facilities that conduct HIV/AIDS testing where indicated document was observed | | | | | |
|----------------------------|--|---------------------------------|---|---|---|---|---|--------------------------------|---|--------------------------------------|--|---|
| | | | Per-centage with HIV test avail-able either onsite or in affiliated laboratory ² | Number with HIV test available either onsite or in affiliated laboratory (weighted) | Per-centage agreement with external site for HIV test | Number agreement with external site for HIV test (weighted) | Informed consent policy for HIV testing in all relevant service sites | Register with HIV test results | Record for clients receiving HIV test results | All items for indicator ³ | Number of facilities that conduct HIV/AIDS test (weighted) | Number of service sites ⁴ (weighted) |
| Type of facility | | | | | | | | | | | | |
| Hospital (all types) | 98 | 28 | 97 | 27 | 32 | 1 | 11 | 30 | 16 | 6 | 28 | 97 |
| Health centre | 53 | 125 | 66 | 62 | 100 | 4 | 40 | 45 | 35 | 13 | 66 | 128 |
| Maternity | 63 | 20 | 78 | 12 | 40 | 3 | 6 | 22 | 11 | 0 | 12 | 24 |
| Clinic | 38 | 8 | 78 | 3 | 33 | 0 | 32 | 70 | 55 | 13 | 3 | 5 |
| Dispensary | 22 | 249 | 55 | 46 | 0 | 4 | 51 | 85 | 60 | 8 | 54 | 58 |
| Stand-alone VCT | 100 | 10 | 82 | 10 | 100 | 0 | 89 | 98 | 96 | 73 | 10 | 11 |
| Managing authority | | | | | | | | | | | | |
| Government | 35 | 246 | 56 | 80 | 32 | 1 | 44 | 50 | 45 | 7 | 86 | 172 |
| NGO | 48 | 21 | 85 | 10 | 100 | 0 | 70 | 75 | 72 | 57 | 10 | 15 |
| Private (for profit) | 56 | 63 | 90 | 32 | 67 | 6 | 38 | 40 | 14 | 5 | 35 | 71 |
| Faith-based organisation | 38 | 110 | 80 | 38 | 22 | 5 | 24 | 81 | 53 | 21 | 42 | 64 |
| Province | | | | | | | | | | | | |
| Nairobi | 78 | 41 | 90 | 26 | - | 0 | 25 | 85 | 38 | 17 | 32 | 49 |
| Central | 37 | 50 | 62 | 18 | 0 | 0 | 27 | 59 | 41 | 25 | 18 | 34 |
| Coast | 40 | 49 | 82 | 17 | 94 | 3 | 17 | 10 | 7 | 2 | 20 | 78 |
| Eastern | 44 | 83 | 58 | 32 | 0 | 4 | 64 | 43 | 52 | 16 | 36 | 58 |
| North Eastern | 22 | 8 | 65 | 2 | - | 0 | 29 | 5 | 10 | 5 | 2 | 1 |
| Nyanza | 20 | 54 | 88 | 11 | 100 | 0 | 14 | 42 | 39 | 4 | 11 | 25 |
| Rift Valley | 32 | 126 | 73 | 40 | 0 | 1 | 55 | 78 | 56 | 7 | 40 | 55 |
| Western | 47 | 29 | 40 | 14 | 83 | 3 | 31 | 47 | 42 | 14 | 14 | 22 |
| Total | 39 | 440 | 70 | 160 | 47 | 12 | 39 | 57 | 42 | 13 | 172 | 322 |

¹ The facility either conducts the test (any type of HIV test anywhere in the facility, including ANC clinics), has an affiliated external laboratory where tests are conducted, or has an agreement with an external testing site from where the test results are expected to be returned to the facility.

² The facility has rapid test anywhere in the facility (including VCT and PMTCT service sites), has functioning ELISA equipment with all items necessary to conduct a test, or has all items for Western Blot or PCR tests available.

³ Facility has testing capability on or offsite and has all documentation available.

⁴ There may be several locations within the same facility where the same service is offered. Each such location is defined as a service site.

Overall, 13 percent of facilities that have an HIV testing system have all items for the provision and documenting of HIV testing, i.e., in addition to a testing system, facility has all of the following documentation: informed consent policy for HIV testing, register with HIV test results, and records of clients receiving HIV test results observed in all relevant service sites.

Seven in ten facilities either conduct the test onsite or in an affiliated laboratory, and 47 percent have an observed referral system⁴ for the test to be conducted outside the facility. A smaller proportion of health centres, government facilities and facilities in Central province conduct tests onsite or in an affiliated laboratory.

Of the facilities that have a testing system, 39 percent have an informed consent policy document available in all relevant tests service sites. A register with HIV test results and a record of clients

⁴ Records were observed documenting that a referral system exists and that the results are returned to the facility.

who have actually received HIV test results was observed at 57 percent and 42 percent of all relevant service sites, respectively.

Stand-alone VCT sites did better with all three items mentioned above, with 89 percent having an informed consent policy document, 98 percent having a register with test results, and 96 percent having records of clients receiving test results. Private (for profit) institutions and maternities, though having the capacity to conduct HIV testing, fare lower on other supporting services (e.g., informed consent, registers of results, and clients receiving results), thus scoring only 5 percent on the overall indicator of capacity and documentation.

Appendix 1

WEIGHTING OF FACILITIES IN KSPA

When selecting a sample, very frequently there is interest in having data on specific types of services or facilities where a nationally representative sample will not provide sufficient numbers for meaningful analysis. In designing a sample selection to provide sufficient numbers of subsets of the data, these facilities or services may be over- or under-represented in the sample in relation to the proportion that exist in the nation as a whole. To compensate for over- or under-sampling, when presenting statistics that are meant to be nationally representative, the data are weighted. The weights ensure that such actual proportions of facilities and services as exist in reality appear in the data. Thus, if a type of facility or service is over-sampled, so that twice as many were included in the sample as should be, for nationally representative results, the results for the over-sampled services or facilities will be weighted down by 50 percent. The number of hospitals actually assessed (172) corresponds to 39 percent of the total sample. However, the real proportion of hospitals to all facilities as per the national list of facilities—i.e., the sampling frame for the Service Provision Assessment—is 6 percent. Thus, the number of hospitals was weighted down to 28, which reflects such actual percentage.

The weighted numbers are provided in the tables in the report and give information on what proportion of the total comes from this particular type of facility or province. It is important to know, however, that all facilities in the sample are used when calculating percentages. So, if a weighted number looks too small to be meaningful, it is important to review the unweighted number to know how many actual facilities/interviews contribute to this percentage. For example, in a sample of 100 facilities, if clinics represent 3 percent of all facilities, the weighted number of facilities shown will be "3". If, in fact, 20 clinics were sampled so that data could be provided for clinics alone, the data from these 20 clinics would be used to calculate the percentage that is shown for the "3 weighted" clinics.

MEASURE DHS Preliminary Reports

| | | | |
|---|-----------|------|-----------------|
| Turkey | December | 1998 | English |
| Ghana | May | 1999 | English |
| Guatemala | June | 1999 | Spanish |
| Guinea | October | 1999 | French |
| Kazakhstan | December | 1999 | English/Russian |
| Tanzania | February | 2000 | English |
| Zimbabwe | March | 2000 | English |
| Bangladesh | June | 2000 | English |
| Egypt | June | 2000 | English |
| Ethiopia | July | 2000 | English |
| Haiti | September | 2000 | French |
| Cambodia | November | 2000 | English |
| Turkmenistan | January | 2001 | English |
| Malawi | February | 2001 | English |
| Rwanda | February | 2001 | French |
| Armenia | March | 2001 | English |
| Gabon | March | 2001 | French |
| Uganda | May | 2001 | English |
| Mauritania | July | 2001 | French |
| Nepal | August | 2001 | English |
| Mali | December | 2001 | French |
| Benin | February | 2002 | French |
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| Zambia | October | 2002 | English |
| Jordan | November | 2002 | English |
| Dominican Republic | January | 2003 | Spanish |
| Uzbekistan | May | 2003 | English |
| Indonesia | August | 2003 | English |
| Nigeria | October | 2003 | English |
| Kenya | December | 2003 | English |
| Indonesia (young adult) | December | 2003 | English |
| Jayapura City, Indonesia (young adult) | December | 2003 | English |
| Philippines | January | 2004 | English |
| Burkina Faso | May | 2004 | French |
| Ghana | June | 2004 | English |
| Morocco | June | 2004 | French |
| Bangladesh | September | 2004 | English |
| Cameroun | October | 2004 | French |
| Madagascar | October | 2004 | French |
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